STATE OF CALIFORNIA
CALIFORNIA ENVIRONMENTAL PROTECTION AGENCY
CALIFORNIA AIR RESOURCES BOARD

MOBILE SOURCE CERTIFICATION AND COMPLIANCE FEE PAYMENT FORM FOR ON-ROAD APPLICATIONS ONLY

CARB USE ONLY

Invoice Name	MSF231325
Invoice Date	Jun 05, 2024

COMPANY INFORMATION

Company Name	Ford Motor Company
Address	1 American Road
City	Dearborn
State	Michigan
Zip	48126-2798
Country	United States
Contact Name	Tina Oliver
Contact Telephone Number	313-3238938
Contact Email	toliver@ford.com
CARB Customer Number	CCAM000031

APPLICATION INFORMATION

Payment Row Number	Product Description or File Name	Model Year/Calendar Year	Unique Application Identifier: Test Group, Engine Family, Trailer Family, Vehicle Family, ZEP Family, if applicable (ID listed in payment row must match the unique identifier given to the certification application)	Category Type	Fee Type	Amount
1	CBI_SFMXD06.86CH_APPIP	Model Year 2025	SFMXD06.86CH	Light-duty vehicle test group and medium-duty vehicle test group	Base	$ 46,509.00
2	CBI_SFMXD06.87BC_APPIP	Model Year 2025	SFMXD06.87BC	Light-duty vehicle test group and medium-duty vehicle test group	Base	$ 46,509.00
3	CBI_SFMXD07.363H_APPIP	Model Year 2025	SFMXD07.363H	Light-duty vehicle test group and medium-duty vehicle test group	Partial Carry-Over	$ 23,255.00
4	CBI_SFMXD07.373K_APPIP	Model Year 2025	SFMXD07.373K	Light-duty vehicle test group and medium-duty vehicle test group	Partial Carry-Over	$ 23,255.00
5	CBI_FORD_2025_CIHD Aplication_HD_Evaporative_S	Model Year 2025	SFMXF0210GCK	Heavy-duty vehicle evaporative emissions family and Incomplete MDV evaporative emissions family	Partial Carry-Over	$ 7,468.00
6	CBI_FORD_2025_CIHD Aplication_HD_Evaporative_S	Model Year 2025	SFMXF0210GCV	Heavy-duty vehicle evaporative emissions family and Incomplete MDV evaporative emissions family	Partial Carry-Over	$ 7,468.00
7	CBI_FORD_2025_CIHD Aplication_HD_Evaporative_S	Model Year 2025	SFMXF0210GDK	Heavy-duty vehicle evaporative emissions family and Incomplete MDV evaporative emissions family	Partial Carry-Over	$ 7,468.00
8	CBI_FORD_2025_CIHD Aplication_HD_Evaporative_S	Model Year 2025	SFMXF0360NGK	Heavy-duty vehicle evaporative emissions family and Incomplete	Partial Carry-Over	$ 7,468.00

				MDV evaporative emissions family		
9	CBI_FORD_2025_CIHD Aplication_HD_Evaporative_S	Model Year 2025	SFMXF0360NGV	Heavy-duty vehicle evaporative emissions family and Incomplete MDV evaporative emissions family	Partial Carry-Over	$ 7,468.00
10	CBI_FORD_2025_CIHD Aplication_HD_Evaporative_S	Model Year 2025	SFMXF0365NGK	Heavy-duty vehicle evaporative emissions family and Incomplete MDV evaporative emissions family	Partial Carry-Over	$ 7,468.00
11	CBI_FORD_2025_CIHD Aplication_HD_Evaporative_S	Model Year 2025	SFMXF0210GCJ	Heavy-duty vehicle evaporative emissions family and Incomplete MDV evaporative emissions family	Partial Carry-Over	$ 7,468.00
12	CBI_FORD_2025_CIHD Aplication_HD_Evaporative_S	Model Year 2025	SFMXF0210GDJ	Heavy-duty vehicle evaporative emissions family and Incomplete MDV evaporative emissions family	Partial Carry-Over	$ 7,468.00
13	CBI_FORD_2025_CIHD Aplication_HD_Evaporative_S	Model Year 2025	SFMXF0360NGJ	Heavy-duty vehicle evaporative emissions family and Incomplete MDV evaporative emissions family	Partial Carry-Over	$ 7,468.00
14	CBI_FORD_2025_CIHD Aplication_HD_Exhaust_SFM	Model Year 2025	SFMXE07.3BW7	HDO engine family and MDO engine family	Partial Carry-Over	$ 21,222.00
15	CBI_FORD_2025_CIHD Aplication_HD_Exhaust_SFM	Model Year 2025	SFMXE07.3BWU	HDO engine family and MDO engine family	Partial Carry-Over	$ 21,222.00
16	CBI_FORD_2025_CIHD Aplication_HD_Exhaust_SFM	Model Year 2025	SFMXH06.7P4A	HD CI engine family and MD CI engine family	Partial Carry-Over	$ 60,633.00
17	CBI_FORD_2025_CIHD Aplication_HD_Exhaust_SFM	Model Year 2025	SFMXH06.7P4B	HD CI engine family and MD CI engine family	Partial Carry-Over	$ 60,633.00
18	CBI_FORD_2025_CIHD Aplication_HD_Exhaust_SFM	Model Year 2025	SFMXH06.7P5C	HD CI engine family and MD CI engine family	Partial Carry-Over	$ 60,633.00
19	CBI_SFMXD06.761B_APPIPT	Model Year 2025	SFMXD06.761B	Light-duty vehicle test group and medium-duty vehicle test group	Partial Carry-Over	$ 23,255.00
20	CBI_SFMXD06.771D_APPIPT	Model Year 2025	SFMXD06.771D	Light-duty vehicle test group and medium-duty vehicle test group	Partial Carry-Over	$ 23,255.00
21	CBI_SFMXD03.56BG_APPIPT	Model Year 2025	SFMXD03.56BG	Light-duty vehicle test group and medium-duty vehicle test group	Base	$ 46,509.00
22	CBI_SFMXD03.56BZ_APPIPT	Model Year 2025	SFMXD03.56BZ	Light-duty vehicle test group and medium-duty vehicle test group	Partial Carry-Over	$ 23,255.00
23	CBI_SFMXD03.57BZ_APPIPT	Model Year 2025	SFMXD03.57BZ	Light-duty vehicle test group and medium-duty vehicle test group	Partial Carry-Over	$ 23,255.00
24	CBI_SFMXD00.00AS_APPIPT	Model Year 2025	SFMXD00.00AS	Light-duty vehicle test group and medium-duty vehicle test group	Zero-Emission	$ 11,627.00
25	CBI_SFMXD00.00MW_APPIP	Model Year 2025	SFMXD00.00MW	Light-duty vehicle test group and medium-duty vehicle test group	Zero-Emission	$ 11,627.00
26	CBI_SFMX2VOCV3AA_APP_	Model Year 2025	SFMX2VOCV3AA	Heavy-duty greenhouse gas vehicle family	Base	$ 17,720.00
27	CBI_SFMX2VOCV3AB_APP_	Model Year 2025	SFMX2VOCV3AB	Heavy-duty greenhouse gas vehicle family	Base	$ 17,720.00
28	CBI_SFMX2VOCV4AA_APP_	Model Year 2025	SFMX2VOCV4AA	Heavy-duty greenhouse gas vehicle family	Base	$ 17,720.00
29	CBI_SFMX2VOCV4AB_APP_	Model Year 2025	SFMX2VOCV4AB	Heavy-duty greenhouse gas vehicle family	Base	$ 17,720.00
30	CBI_SFMX2VOCV6AA_APP_	Model Year 2025	SFMX2VOCV6AA	Heavy-duty greenhouse gas vehicle family	HD GHG Partial Carry-Over	$ 8,860.00
31	CBI_SFMX2VOCV6AB_APP_	Model Year 2025	SFMX2VOCV6AB	Heavy-duty greenhouse gas vehicle family	HD GHG Partial Carry-Over	$ 8,860.00
					Total Due	$ 682,466.00

I, Greg Martin , attest that any information provided is true, accurate, and complete.

(Responsible Party Signature Here)

FORD MOTOR COMPANY
APPLICATION FOR CERTIFICATION - PART 1

2025 Model Year

Test Group:	SFMXD06.771D
Durability Group:	SFMXDPDNNF1B
Test Group Description:	6.7L V8
Durability Group Description:	Four Stroke, Diesel Cycle, Diesel Fueled, Turbocharged, Catalyst Code F
Applicable Standards:	Federal Exhaust - Federal Tier 3 HD Class 3 Bin 230 California Exhaust - California LEV-III SULEV230 California Particulate Matter - 0.010 mg/mi Federal Particulate Matter - 0.010 mg/mi SFTP - 0.350 g/mi NMOG+NOx CH_4 - 0.05 g/mi N_2O FEL - 0.15 g/mi
Carlines Covered:	F250 PICKUP 2WD DIESEL F250 PICKUP 4WD DIESEL F350 PICKUP 2WD DIESEL F350 PICKUP 4WD DIESEL F450 PICKUP 2WD DIESEL F450 PICKUP 4WD DIESEL

Vehicles Tested

Exhaust Emission Vehicle:	
PFH1-6.7-J-608/Config 0	
FTP (E0) TN	PFMX91005290
HWY (E0) TN	PFMX91005289
SC03 (E0) TN	PFMX10077561
LA92 (E0) TN	PFMX91005291

Release Date: December 5, 2024

For Questions, Contact:

Fredericks, Edward, efrederi@ford.com (1-313-8056647)

Application for Certification

Part 1

Part 1 Application Index

Part 2 Application Index

(Running change updates)

SECTION 2

Durability Group Description

For a description of the Durability Group for this test group refer to Section 16.00.00.00 of the Common Section.

SECTION 3

Evaporative/Refueling Family Description

SECTION 4

Durability Procedure Description

For a description of the Durability Procedure,
refer to Section 16.00.00.00 of the Common Section.

SECTION 5

Test Group Description

For a description of this Test Group, refer to the Cover Page (00.00.00.00) and to the Test Results Section (07.00.00.00) of this application.

SECTION 6

Test Vehicle Description

For a description of the Test Vehicles utilized in this Test Group, refer to Section 07.00.00.00 of this application.

SECTION 7

EPA Certification Summary Information Report

(Test Results)

Certification Summary Information Report

Manufacturer	Ford Motor Company	**Manufacturer Code**	FMX
Test Group	SFMXD06.771D	**Evaporative/Refueling Family**	--
Certificate Number	--	**CARB Executive Order #**	--
Certificate Issue Date	--	**Certificate Revision Date**	--
Certificate Effective Date	--	**Conditional Certificate**	--
CSI Revision #	--	**CSI Submission/Revision Date**	08/26/2024 01:24:47 PM
Model Year	2025		

Test Group Information

CSI Type	Update for Correction	**Running Change Reference Number**	--
GHG Exempt Status	Not Exempt		

Drive Sources and Fuel(s)

Drive Source #1: Combustion Engine

Fuel	Basic Fuel Metering System	Lean Burn Strategy Indicator
Diesel	Common Rail Direct Diesel Injection	--

Hybrid Indicator	No		
Multiple Fuel Storage	--	**Rechargeable Energy Storage System Indicator**	--
Multiple Fuel Combustion	--	**Off-board Charge Capable Indicator**	--
Fuel Cell Indicator	--	**EPA Vehicle Class**	HDV2, M7
Federal Clean Fuel Vehicle	No	**Federal Clean Fuel Vehicle Standard**	--
Federal Clean Fuel Vehicle ILEV	No	**California Partial Zero Emissions Vehicle Indicator**	No
Durability Group Name	SFMXDPDNNF1B	**Durability Group Equivalency Factor**	1.0
Reduced Fee Test Group	No	**Certification Region Code(s)**	FA, CA
Complies with HD GHG 2b/3 regulations?	Yes		
Introduction into Commerce Date	--	**CAP2000 Conditional Certificate?**	N/A
Independent Commercial Importer?	--	**Alternative Fuel Converter Certificate?**	--
SFTP Federal Composite Compliance Identifier	Tier 3	**SFTP Tier 2 Composite CO Option**	No
SFTP LEV-III Composite Compliance Indicator	Yes		
OBD Compliance Type	CARB	**OBD Demonstration Vehicle Test Group**	SFMXD06.771D
Test Group OBD Compliance Level	Full - no deficiencies	**Number of Test Group OBD Deficiencies**	0
OBD Deficiencies Comments	--		
Mfr Test Group Comments	F-Series Super Duty 10-14K GVWR GHG RESULTS N2O COMB = 0.10 vs 0.15 STD, CH4 COMB = 0.02 vs 0.05 STD		
Mfr Exhaust / Evap Standards Comments	--		

Certification Summary Information Report

Test Group	SFMXD06.771D	**Evaporative/Refueling Family**	--

Models Covered by this Certificate

Carline Manufacturer	Division	Carline	Certification Region Code(s)	Drive System	Trans - Type	- # of Gears	Trans - Lockup
Ford Motor Company	1 - Ford	355 - F450 PICKUP 2WD DIESEL	California + CAA Section 177 states	2-Wheel Drive, Rear	Semi-Automatic	10	Yes
Ford Motor Company	1 - Ford	390 - F350 PICKUP 2WD DIESEL	California + CAA Section 177 states	2-Wheel Drive, Rear	Semi-Automatic	10	Yes
Ford Motor Company	1 - Ford	315 - F250 PICKUP 2WD DIESEL	California + CAA Section 177 states	2-Wheel Drive, Rear	Semi-Automatic	10	Yes
Ford Motor Company	1 - Ford	392 - F350 PICKUP 4WD DIESEL	California + CAA Section 177 states	Part-time 4-Wheel Drive	Semi-Automatic	10	Yes
Ford Motor Company	1 - Ford	390 - F350 PICKUP 2WD DIESEL	Federal	2-Wheel Drive, Rear	Semi-Automatic	10	Yes
Ford Motor Company	1 - Ford	350 - F450 PICKUP 4WD DIESEL	California + CAA Section 177 states	Part-time 4-Wheel Drive	Semi-Automatic	10	Yes
Ford Motor Company	1 - Ford	392 - F350 PICKUP 4WD DIESEL	Federal	Part-time 4-Wheel Drive	Semi-Automatic	10	Yes
Ford Motor Company	1 - Ford	330 - F250 PICKUP 4WD DIESEL	Federal	Part-time 4-Wheel Drive	Semi-Automatic	10	Yes
Ford Motor Company	1 - Ford	330 - F250 PICKUP 4WD DIESEL	California + CAA Section 177 states	Part-time 4-Wheel Drive	Semi-Automatic	10	Yes
Ford Motor Company	1 - Ford	315 - F250 PICKUP 2WD DIESEL	Federal	2-Wheel Drive, Rear	Semi-Automatic	10	Yes
Ford Motor Company	1 - Ford	350 - F450 PICKUP 4WD DIESEL	Federal	Part-time 4-Wheel Drive	Semi-Automatic	10	Yes
Ford Motor Company	1 - Ford	355 - F450 PICKUP 2WD DIESEL	Federal	2-Wheel Drive, Rear	Semi-Automatic	10	Yes

Engine Description

Hybrid Type	--	**Hybrid Description**	--
Engine Type	4-Stroke Compression Ignition	**Mfr Engine Description**	4-Stroke Compression Ignition
Engine Block Arrangement	V-shaped engine	**Mfr Engine Block Arrangement Description**	6.7L V8
Camless Valvetrain Indicator	No	**Oil Viscosity/Classification**	10W-30/CK-4
Number of Cylinders/Rotors	8	**Mechanically Variable Compression Ratio Indicator**	N

After Treatment Device(s) (ATD)

ATD Number	ATD Type	ATD Precious Metal	Substrate Material	Substrate Construction
1	Oxidation catalyst	Platinum + Palladium	Ceramic	Monolith
2	Selective Catalytic Reduction	Platinum	Ceramic	Monolith
3	Other	Platinum + Palladium	Ceramic	Monolith
4	Diesel Particulate Filter	Platinum + Palladium	Metal	Monolith

Mfr After Treatment Device (ATD) Comments	DOC, SCR, DEC, DPF
Direct Ozone Reduction (DOR) Device	Not Equipped
Mfr Emission Control Device Comments	--

Certification Summary Information Report

Test Group	SFMXD06.771D	**Evaporative/Refueling Family**	--

Engine Configuration Number 1

Engine Displacement (liters)	6.7	**Engine Rated Horsepower**	475
Number of Inlet Valves Per Cylinder	2	**Number of Exhaust Valves Per Cylinder**	2
Air Aspiration Method	Turbocharged	**Number of Air Aspiration Devices**	1
Air Aspiration Device Configuration	Single	**Charge Air Cooler Type**	Liquid
Air Aspiration Drive Method(s)	Mechanical		
Cylinder Deactivation	No		
Cylinder Deactivation Description	--		
Variable Valve Timing	No		
Variable Valve Timing System Description	--		
Variable Valve Lift?	No		
Variable Valve Lift System Description	--		
Number of Knock Sensors	0	**Number of Air/Fuel Sensors**	2
Air/Fuel Sensor # 1 Type	Nitrogen oxide	**Air/Fuel Sensor # 1 Description**	--
Air/Fuel Sensor # 2 Type	Nitrogen oxide	**Air/Fuel Sensor # 2 Description**	--
Mfr Air/Fuel Sensor Comments	--		
Exhaust Gas Recirculation	Yes	**Cooled Exhaust Gas Recirculation**	Yes
EGR Type	Electronic/Electric	**Exhaust Gas Recirculation Description if 'Other'**	--
Closed Loop Air Injection System	No		
Air Injection Type	Not Applicable	**Air Injection Type if 'Other'**	--
Mfr Engine Configuration Comments	--		

Certification Summary Information Report

Test Group	SFMXD06.771D	**Evaporative/Refueling Family**	--

Engine Configuration Number 2

Engine Displacement (liters)	6.7	**Engine Rated Horsepower**	500
Number of Inlet Valves Per Cylinder	2	**Number of Exhaust Valves Per Cylinder**	2
Air Aspiration Method	Turbocharged	**Number of Air Aspiration Devices**	1
Air Aspiration Device Configuration	Single	**Charge Air Cooler Type**	Liquid
Air Aspiration Drive Method(s)	Mechanical		
Cylinder Deactivation	No		
Cylinder Deactivation Description	--		
Variable Valve Timing	No		
Variable Valve Timing System Description	--		
Variable Valve Lift?	No		
Variable Valve Lift System Description	--		
Number of Knock Sensors	0	**Number of Air/Fuel Sensors**	2
Air/Fuel Sensor # 1 Type	Nitrogen oxide	**Air/Fuel Sensor # 1 Description**	--
Air/Fuel Sensor # 2 Type	Nitrogen oxide	**Air/Fuel Sensor # 2 Description**	--
Mfr Air/Fuel Sensor Comments	--		
Exhaust Gas Recirculation	Yes	**Cooled Exhaust Gas Recirculation**	Yes
EGR Type	Electronic/Electric	**Exhaust Gas Recirculation Description if 'Other'**	--
Closed Loop Air Injection System	No		
Air Injection Type	Not Applicable	**Air Injection Type if 'Other'**	--
Mfr Engine Configuration Comments	--		

Official Test Numbers

Test Group Fuel	FTP	US06	SC03	Cold CO	Highway	EPA City Litmus Value	EPA City Litmus Threshold	EPA Highway Litmus Value	EPA Highway Litmus Threshold	CREE Weighting Factor
Diesel	PFMX91005290	--	--	--	PFMX91005289	--	11.0	--	13.9	--

SFTP LEV-III Official Test Numbers

Test Group Fuel	FTP	US06	SC03
Diesel	PFMX91005290	PFMX91005291	PFMX10077561

Certification Summary Information Report

Test Group	SFMXD06.771D	**Evaporative/Refueling Family**	--

Emission Data Vehicle Information

Vehicle ID / Configuration	PFH1-6.7-J-608 / 0	**Manufacturer Vehicle Configuration Number**	0
Original Test Group Name	PFMXD06.771D	**Original Evaporative/Refueling Family**	PFMXR0000DSL
Original Test Vehicle Model Year	2023		

Vehicle Model

Represented Test Vehicle Make	Ford	**Represented Test Vehicle Model**	F350 4x4

Leak Family Details

Leak Family Identifier	--	**Leak Family Name**	--

Drive Sources and Fuel System Details

Drive Source and Fuel#	Drive Source	Fuel
1	Combustion Engine	Diesel

Hybrid Indicator	No		
Multiple Fuel Storage	--	**Multiple Fuel Combustion**	--
Fuel Cell Indicator	--	**Rechargeable Energy Storage System Indicator**	--
Rechargeable Energy Storage System	--	**Rechargeable Energy Storage System, if 'Other'**	--
Off-board charge Capable Indicator	--		
Odometer Correction -- Initial	0	**Odometer Correction Factor**	1.03
Odometer Correction Sign	- = System Miles is equal to (Test odometer reading - Initial system miles) * Correction factor		
Odometer Correction Units	Miles		
Engine Code	PTFHTRNT00	**Rated Horsepower**	500
Displacement (liters)	6.7		
Air Aspiration Method	Turbocharged	**Air Aspiration Method, if 'Other'**	
Number of Air Aspiration Devices	1	**Air Aspiration Device Configuration**	Single
Charge Air Cooler Type	Liquid	**Drive Mode While Testing**	2-Wheel Drive, Rear
Shift Indicator Light Usage	Not eqipped	**Aged Emission Components**	4,000 (mi)
Curb Weight (lbs)	8882	**Equivalent Test Weight (pounds)**	11500
GVWR (lbs)	14000	**N/V Ratio**	28.6
Axle Ratio	4.1		
Transmission Type	Semi-Automatic	**# of Transmission Gears**	10
Transmission Lockup	Yes	**Creeper Gear**	No

Dynamometer Coefficients:

	Target Coefficients			Set Coefficients			
Coefficient Category	**A (lbf)**	**B (lbf/mph)**	**C (lbf/mph**2)**	**A (lbf)**	**B (lbf/mph)**	**C (lbf/mph**2)**	**EPA Calculated Total Road Load Horse Power for City/Highway/Evap Coefficients**
City/Highway/Evap	86.75	0.4033	0.07411	28.1	-0.0511	0.07579	39
US06	86.75	0.4033	0.07411	28.1	-0.0511	0.07579	N/A

Certification Summary Information Report

Test Group	SFMXD06.771D	**Evaporative/Refueling Family**	--

Emission Control Device Comments	T23-0288-01
Manufacturer Test Vehicle Comments	The vehicle dynamometer settings, in the Target/Set Coeff tab are the correct ones to use per robert Peavyhouse on 10/20/22 at 1:28PM.

Certification Summary Information Report

Test Group	SFMXD06.771D	**Evaporative/Refueling Family**	--

Test #	**PFMX91005290**	**Test Procedure**	**2 - CVS 75 and later (w/o can. load)**
Exhaust Test # for this Evap Test	--	**Test Fuel Type**	19 - Federal Cert Diesel 7-15 PPM Sulfur
Test Date	12/06/2022	**Fuel**	Diesel
Fuel Batch ID	28317	**Fuel Calibration Number**	1
Vehicle Class	HDV2 (Federal HD chassis Class 3 GVW 10001-14000), MDV7 (Cal. LEV 2/3 MDV GVW 10001-14000)	**DF Type**	Mfr. Determined
Verify Test Lab ID	--		
E10 Evaporative Test Measurement Method	--		
Test Start Odometer Reading	0	**Odometer Units**	M
4WD Test Dyno	No	**Diesel Adjustment Factor Usage**	U
State of Charge Delta	--		
Drive Cycle Speed Tolerance Criteria	Used Part 1066 (+/- 2.0 mph, +/- 1.0 sec)	**Road Speed Fan Usage**	Yes

Test Results

Test Result Name	Unrounded Test Result	Verify Calculated FE Equivalent Value (miles per gallon)
CO2 BAG 1 (Bag 1 Carbon Dioxide)	802.5383301	--
FE BAG 1 (Bag 1 Fuel Economy)	12.6728363	--
CO2 BAG 2 (Bag 2 Carbon Dioxide)	713.0320435	--
FE BAG 2 (Bag 2 Fuel Economy)	14.2706375	--
CO2 BAG 3 (Bag 3 Carbon Dioxide)	694.8051147	--
FE BAG 3 (Bag 3 Fuel Economy)	14.6453018	--
METHANE (CH4 - Methane)	0.0094039	--
CO (Carbon Monoxide)	0.0440917	--
DT-ASCR (Drive Trace Absolute Speed Change Rating)	2.2673931	--
DT-EER (Drive Trace Energy Economy Rating)	1.4898081	--
DT-IWRR (Drive Trace Inertia Work Ratio Rating)	3.0167024	--
MFR FE (Manufacturer Fuel Economy)	14.0029411	--
NOX (Nitrogen Oxide)	0.0635266	--
N2O (Nitrous Oxide)	0.0639251	--
HC-NM (Non-methane Hydrocarbon)	0.0038176	--
NMOG (Non-methane organic gases)	0.0038176	--
PM (Particulate Matter)	0.0000815	--
HC-TOTAL (Total Hydrocarbon)	0.0124078	--

Certification Summary Information Report

Test Group SFMXD06.771D **Evaporative/Refueling Family** --

Test Result Name	Unrounded Test Result	Verify Calculated CREE/OPT-CREE
Carbon-Related Exhaust Emissions	9999.9999999	727

Test Result Name	Unrounded Test Result	Verify Calculated CO2
Carbon dioxide	726.5855103	--

Manufacturer Test Comments None

Certification Summary Information Report

Test Group SFMXD06.771D **Evaporative/Refueling Family** --

Certification Region	Useful Life	Standard Level	Emission Name	Rounded Result	RAF	NMOG/NMHC Ratio	Diesel Adjustment Factor	Add DF	Mult DF	Certification Level	Standard	Pass/Fail
Fed	150,000 miles	Federal Tier 3 HD Class 3 Bin 230	CO	0.04	--	--	0.0007 UP	0.05	--	0.1	4.2	Pass
Fed	150,000 miles	Federal Tier 3 HD Class 3 Bin 230	CO-COMP	0.0	--	--	0 UP	0	--	0	4	Pass
Fed	150,000 miles	Federal Tier 3 HD Class 3 Bin 230	CO2	727	--	--	0 UP	0	--	727	--	--
Fed	150,000 miles	Federal Tier 3 HD Class 3 Bin 230	NMOG	0.0038	--	1.0	0.0005 UP	0.0131	--	0.017	999.999	Pass
Fed	150,000 miles	Federal Tier 3 HD Class 3 Bin 230	NMOG+NOX	0.0673	--	--	0 UP	--	--	0.112	0.230	Pass
Fed	150,000 miles	Federal Tier 3 HD Class 3 Bin 230	NMOG+NOX-COMP	0.1220	--	--	0 UP	0	--	0.122	0.350	Pass
Fed	150,000 miles	Federal Tier 3 HD Class 3 Bin 230	NOX	0.0635	--	--	0.013 UP	0.018	--	0.094	999.999	Pass
Fed	150,000 miles	Federal Tier 3 HD Class 3 Bin 230	PM	0.0001	--	--	0.0002 UP	0.0037	--	0.004	0.010	Pass
Fed	150,000 miles	Federal Tier 3 HD Class 3 Bin 230	PM-COMP	0.0043	--	--	0 UP	0	--	0.004	0.007	Pass
CA	150,000 miles	California LEV-III SULEV230	CO	0.04	--	--	0.0007 UP	0.05	--	0.1	4.2	Pass
CA	150,000 miles	California LEV-III SULEV230	CO-COMP	0.0	--	--	0 UP	0	--	0	4	Pass
CA	150,000 miles	California LEV-III SULEV230	CO2	727	--	--	0 UP	0	--	727	--	--
CA	150,000 miles	California LEV-III SULEV230	NMOG	0.0038	--	1.0	0.0005 UP	0.0131	--	0.017	999.999	Pass
CA	150,000 miles	California LEV-III SULEV230	NMOG+NOX	0.0673	--	--	0 UP	--	--	0.112	0.230	Pass
CA	150,000 miles	California LEV-III SULEV230	NMOG+NOX-COMP	0.1220	--	--	0 UP	0	--	0.122	0.350	Pass
CA	150,000 miles	California LEV-III SULEV230	NOX	0.0635	--	--	0.013 UP	0.018	--	0.094	999.999	Pass
CA	150,000 miles	California LEV-III SULEV230	PM	0.0001	--	--	0.0002 UP	0.0037	--	0.004	0.010	Pass
CA	150,000 miles	California LEV-III SULEV230	PM-COMP	0.0043	--	--	0 UP	0	--	0.004	0.007	Pass

NOTE: For Non-charge depleting tests, the Rounded Result for CO2 Emission name is a Verify-calculated value.

Certification Summary Information Report

Test Group	SFMXD06.771D	**Evaporative/Refueling Family**	--

Certification Summary Information Report

Test Group	SFMXD06.771D	**Evaporative/Refueling Family**	--

Test #	**PFMX91005289**	**Test Procedure**	**3 - HWFE**
Exhaust Test # for this Evap Test	--	**Test Fuel Type**	19 - Federal Cert Diesel 7-15 PPM Sulfur
Test Date	12/16/2022	**Fuel**	Diesel
Fuel Batch ID	28317	**Fuel Calibration Number**	1
Vehicle Class	HDV2 (Federal HD chassis Class 3 GVW 10001-14000), MDV7 (Cal. LEV 2/3 MDV GVW 10001-14000)	**DF Type**	Mfr. Determined
Verify Test Lab ID	--		
E10 Evaporative Test Measurement Method	--		
Test Start Odometer Reading	4467	**Odometer Units**	M
4WD Test Dyno	No	**Diesel Adjustment Factor Usage**	U
State of Charge Delta	--		
Drive Cycle Speed Tolerance Criteria	Used Part 1066 (+/- 2.0 mph, +/- 1.0 sec)	**Road Speed Fan Usage**	Yes

Test Results

Test Result Name	Unrounded Test Result	Verify Calculated FE Equivalent Value (miles per gallon)
METHANE (CH4 - Methane)	0.0031897	--
CO (Carbon Monoxide)	0	--
DT-ASCR (Drive Trace Absolute Speed Change Rating)	4.4793887	--
DT-EER (Drive Trace Energy Economy Rating)	0.8424873	--
DT-IWRR (Drive Trace Inertia Work Ratio Rating)	5.9772992	--
MFR FE (Manufacturer Fuel Economy)	19.9029884	--
NOX (Nitrogen Oxide)	0.0099988	--
N2O (Nitrous Oxide)	0.0413346	--
HC-NM (Non-methane Hydrocarbon)	0	--
NMOG (Non-methane organic gases)	0	--
HC-TOTAL (Total Hydrocarbon)	0.0020678	--

Test Result Name	Unrounded Test Result	Verify Calculated CREE/OPT-CREE
Carbon-Related Exhaust Emissions	9999.9999999	511

Test Result Name	Unrounded Test Result	Verify Calculated CO2
Carbon dioxide	511.2662659	--

Manufacturer Test Comments None

Certification Summary Information Report

Test Group SFMXD06.771D **Evaporative/Refueling Family** --

Certification Region	Useful Life	Standard Level	Emission Name	Rounded Result	RAF	NMOG/NM HC Ratio	Diesel Adjustment Factor	Add DF	Mult DF	Certification Level	Standard	Pass/Fail
Fed	150,000 miles	Federal Tier 3 HD Class 3 Bin 230	NMOG	0.0000	--	1.0	0.0007 UP	0.0131	--	0.014	999.999	Pass
Fed	150,000 miles	Federal Tier 3 HD Class 3 Bin 230	NMOG+NOX	0.0100	--	--	0 UP	--	--	0.054	0.230	Pass
Fed	150,000 miles	Federal Tier 3 HD Class 3 Bin 230	NOX	0.0100	--	--	0.012 UP	0.018	--	0.040	999.999	Pass
CA	150,000 miles	California LEV-III SULEV230	NMOG	0.0000	--	1.0	0.0007 UP	0.0131	--	0.014	999.999	Pass
CA	150,000 miles	California LEV-III SULEV230	NMOG+NOX	0.0100	--	--	0 UP	--	--	0.054	0.230	Pass
CA	150,000 miles	California LEV-III SULEV230	NOX	0.0100	--	--	0.012 UP	0.018	--	0.040	999.999	Pass

Certification Summary Information Report

Test Group	SFMXD06.771D	**Evaporative/Refueling Family**	--

Test #	**PFMX91005291**	**Test Procedure**	**16 - Hot 1435 LA92**
Exhaust Test # for this Evap Test	--	**Test Fuel Type**	19 - Federal Cert Diesel 7-15 PPM Sulfur
Test Date	12/16/2022	**Fuel**	Diesel
Fuel Batch ID	28317	**Fuel Calibration Number**	1
Vehicle Class	HDV2 (Federal HD chassis Class 3 GVW 10001-14000), MDV7 (Cal. LEV 2/3 MDV GVW 10001-14000)	**DF Type**	Mfr. Determined
Verify Test Lab ID	--		
E10 Evaporative Test Measurement Method	--		
Test Start Odometer Reading	4490	**Odometer Units**	M
4WD Test Dyno	No	**Diesel Adjustment Factor Usage**	U
State of Charge Delta	--		
Drive Cycle Speed Tolerance Criteria	Used Part 1066 (+/- 2.0 mph, +/- 1.0 sec)	**Road Speed Fan Usage**	Yes

Test Results

Test Result Name	Unrounded Test Result	Verify Calculated FE Equivalent Value (miles per gallon)
CO2 BAG 1 (Bag 1 Carbon Dioxide)	920.8340454	--
FE BAG 1 (Bag 1 Fuel Economy)	11.0505333	--
CO2 BAG 2 (Bag 2 Carbon Dioxide)	695.352356	--
FE BAG 2 (Bag 2 Fuel Economy)	14.6339655	--
METHANE (CH4 - Methane)	0.0025772	--
CO (Carbon Monoxide)	0	--
DT-ASCR (Drive Trace Absolute Speed Change Rating)	0.7299895	--
DT-EER (Drive Trace Energy Economy Rating)	1.4037377	--
DT-IWRR (Drive Trace Inertia Work Ratio Rating)	0.0404858	--
MFR FE (Manufacturer Fuel Economy)	14.0779152	--
NOX (Nitrogen Oxide)	0.0168939	--
N2O (Nitrous Oxide)	0.0871223	--
HC-NM (Non-methane Hydrocarbon)	0.0001361	--
NMOG (Non-methane organic gases)	0.0001361	--
PM (Particulate Matter)	0.0003887	--
HC-TOTAL (Total Hydrocarbon)	0.0022892	--

Test Result Name	Unrounded Test Result	Verify Calculated CO2
Carbon dioxide	722.8167725	--

Manufacturer Test Comments None

Certification Summary Information Report

Test Group SFMXD06.771D **Evaporative/Refueling Family** --

Certification Region	Useful Life	Standard Level	Emission Name	Rounded Result	RAF	NMOG/NM HC Ratio	Diesel Adjustment Factor	Add DF	Mult DF	Certification Level	Standard	Pass/Fail
Fed	150,000 miles	Federal Tier 3 HD Class 3 Bin 230	CO	0.0000	--	--	0.0009 UP	0.05	--	0.051	999.999	Pass
Fed	150,000 miles	Federal Tier 3 HD Class 3 Bin 230	NMOG	0.0001	--	1.0	0.0005 UP	0.0131	--	0.014	999.999	Pass
Fed	150,000 miles	Federal Tier 3 HD Class 3 Bin 230	NOX	0.0169	--	--	0.0167 UP	0.018	--	0.052	999.999	Pass
Fed	150,000 miles	Federal Tier 3 HD Class 3 Bin 230	PM	0.0004	--	--	0.0001 UP	0.0037	--	0.004	999.999	Pass
CA	150,000 miles	California LEV-III SULEV230	CO	0.0000	--	--	0.0009 UP	0.05	--	0.051	999.999	Pass
CA	150,000 miles	California LEV-III SULEV230	NMOG	0.0001	--	1.0	0.0005 UP	0.0131	--	0.014	999.999	Pass
CA	150,000 miles	California LEV-III SULEV230	NOX	0.0169	--	--	0.0167 UP	0.018	--	0.052	999.999	Pass
CA	150,000 miles	California LEV-III SULEV230	PM	0.0004	--	--	0.0001 UP	0.0037	--	0.004	999.999	Pass

Certification Summary Information Report

Test Group	SFMXD06.771D	**Evaporative/Refueling Family**	--

Test #	**PFMX10077561**	**Test Procedure**	**95 - SC03**
Exhaust Test # for this Evap Test	--	**Test Fuel Type**	19 - Federal Cert Diesel 7-15 PPM Sulfur
Test Date	09/19/2022	**Fuel**	Diesel
Fuel Batch ID	--	**Fuel Calibration Number**	--
Vehicle Class	HDV2 (Federal HD chassis Class 3 GVW 10001-14000), MDV7 (Cal. LEV 2/3 MDV GVW 10001-14000)	**DF Type**	Mfr. Determined
Verify Test Lab ID	APTL		
E10 Evaporative Test Measurement Method	--		
Test Start Odometer Reading	4088	**Odometer Units**	M
4WD Test Dyno	No	**Diesel Adjustment Factor Usage**	U
State of Charge Delta	--		
Drive Cycle Speed Tolerance Criteria	Used Part 86 (+/- 2 mph, +/- 1 sec)	**Road Speed Fan Usage**	Yes

Test Results

Test Result Name	Unrounded Test Result	Verify Calculated FE Equivalent Value (miles per gallon)
CO (Carbon Monoxide)	0.0311086	--
DT-ASCR (Drive Trace Absolute Speed Change Rating)	0.217316	--
DT-EER (Drive Trace Energy Economy Rating)	0.364086	--
DT-IWRR (Drive Trace Inertia Work Ratio Rating)	0.500259	--
MFR FE (Manufacturer Fuel Economy)	12.8634607	12.8634607
NOX (Nitrogen Oxide)	0.168188	--
HC-NM (Non-methane Hydrocarbon)	0.0009169	--
NMOG (Non-methane organic gases)	0.0009169	--
PM (Particulate Matter)	0.001317	--
HC-NM+NOX (SFTP Non-methane Hydrocarbon + Nitrogen Oxides for US06 or SC03)	0.1691049	--
HC-TOTAL (Total Hydrocarbon)	0.0053559	--

Test Result Name	Unrounded Test Result	Verify Calculated CREE/OPT-CREE
Carbon-Related Exhaust Emissions	791.063	--

Test Result Name	Unrounded Test Result	Verify Calculated CO2
Carbon dioxide	791.379	--

Manufacturer Test Comments Measured NMOG

Certification Summary Information Report

Test Group SFMXD06.771D **Evaporative/Refueling Family** --

Certification Region	Useful Life	Standard Level	Emission Name	Rounded Result	RAF	NMOG/NM HC Ratio	Diesel Adjustment Factor	Add DF	Mult DF	Certification Level	Standard	Pass/Fail
Fed	150,000 miles	Federal Tier 3 HD Class 3 Bin 230	CO	0.0311	--	--	0.0007 UP	0.05	--	0.082	999.999	Pass
Fed	150,000 miles	Federal Tier 3 HD Class 3 Bin 230	NMOG	0.0009	--	1.0	0.0005 UP	0.0131	--	0.014	999.999	Pass
Fed	150,000 miles	Federal Tier 3 HD Class 3 Bin 230	NOX	0.1682	--	--	0.013 UP	0.018	--	0.199	999.999	Pass
Fed	150,000 miles	Federal Tier 3 HD Class 3 Bin 230	PM	0.0013	--	--	0.0002 UP	0.0037	--	0.005	999.999	Pass
CA	150,000 miles	California LEV-III SULEV230	CO	0.0311	--	--	0.0007 UP	0.05	--	0.082	999.999	Pass
CA	150,000 miles	California LEV-III SULEV230	NMOG	0.0009	--	1.0	0.0005 UP	0.0131	--	0.014	999.999	Pass
CA	150,000 miles	California LEV-III SULEV230	NOX	0.1682	--	--	0.013 UP	0.018	--	0.199	999.999	Pass
CA	150,000 miles	California LEV-III SULEV230	PM	0.0013	--	--	0.0002 UP	0.0037	--	0.005	999.999	Pass

Fuel Properties

Fuel Batch ID	**28317**	**Fuel Calibration Number**	**1**
Test Fuel Type	19 - Federal Cert Diesel 7-15 PPM Sulfur	**Fuel Batch Calibration Date**	10/30/2020
Fuel Batch Calibration Effective Date	10/30/2020	**Fuel Batch Calibration Ineffective Date**	--
Carbon Weight Fraction NMHC	--	**Carbon Weight Fraction HC**	--
Exhaust Carbon Weight Fraction	--	**Fuel Methanol Volume Fraction**	--
Fuel Density (grams/cubic ft)	--	**Fuel Specific Gravity**	0.837
Fuel Ethanol Volume Percent (%)	--	**Fuel Net Heating Value (BTU / lb)**	18441
Fuel Blend Carbon Weight Fraction	0.868	**Weight Fraction CO2**	--

Certification Summary Information Report

Test Group	SFMXD06.771D	**Evaporative/Refueling Family**	--

Consolidated List of Standards

Exhaust Standards

Cert Region	California + CAA Section 177 states	**Cert/In-Use Code**	Both
Vehicle Class	MDV7 (Cal. LEV 2/3 MDV GVW 10001-14000)	**Standard Level**	California LEV-III SULEV230
Fuel	Diesel	**Test Procedure**	CVS 75 and later (w/o can. load)

Useful Life	Emission Name	Rounded Result	RAF	NMOG / NMHC	Upward Diesel Adjustment Factor	Downward Diesel Adjustment Factor	Mult DF	Add DF	Std
150,000 miles	CO	--	--	--	0.0007	0	--	0.05	4.2
150,000 miles	CO-COMP	--	--	--	0	0	--	0	4
150,000 miles	CO2	--	--	--	0	0	--	0	999.999
150,000 miles	HCHO	--	--	--	0.0001	0	--	0.0016	0.006
150,000 miles	METHANE-COMB	--	--	--	0.0012	0	--	0.0008	0.05
150,000 miles	N2O-COMB	--	--	--	0.0014	0	--	0.0438	0.15
150,000 miles	NMOG	--	--	1.0	0.0005	0	--	0.0131	999.999
150,000 miles	NMOG+NOX	--	--	--	0	0	--	0	0.230
150,000 miles	NMOG+NOX-COMP	--	--	--	0	0	--	0	0.350
150,000 miles	NOX	--	--	--	0.013	0	--	0.018	999.999
150,000 miles	PM	--	--	--	0.0002	0	--	0.0037	0.010
150,000 miles	PM-COMP	--	--	--	0	0	--	0	0.007

Certification Summary Information Report

Test Group	SFMXD06.771D	**Evaporative/Refueling Family**	--
Cert Region	Federal	**Cert/In-Use Code**	Both
Vehicle Class	HDV2 (Federal HD chassis Class 3 GVW 10001-14000)	**Standard Level**	Federal Tier 3 HD Class 3 Bin 230
Fuel	Diesel	**Test Procedure**	CVS 75 and later (w/o can. load)

Useful Life	Emission Name	Rounded Result	RAF	NMOG / NMHC	Upward Diesel Adjustment Factor	Downward Diesel Adjustment Factor	Mult DF	Add DF	Std
150,000 miles	CO	--	--	--	0.0007	0	--	0.05	4.2
150,000 miles	CO-COMP	--	--	--	0	0	--	0	4
150,000 miles	CO2	--	--	--	0	0	--	0	999.999
150,000 miles	HCHO	--	--	--	0.0001	0	--	0.0016	0.006
150,000 miles	METHANE-COMB	--	--	--	0.0012	0	--	0.0008	0.05
150,000 miles	N2O-COMB	--	--	--	0.0014	0	--	0.0438	0.15
150,000 miles	NMOG	--	--	1.0	0.0005	0	--	0.0131	999.999
150,000 miles	NMOG+NOX	--	--	--	0	0	--	0	0.230
150,000 miles	NMOG+NOX-COMP	--	--	--	0	0	--	0	0.350
150,000 miles	NOX	--	--	--	0.013	0	--	0.018	999.999
150,000 miles	PM	--	--	--	0.0002	0	--	0.0037	0.010
150,000 miles	PM-COMP	--	--	--	0	0	--	0	0.007

Cert Region	Federal	**Cert/In-Use Code**	Both
Vehicle Class	HDV2 (Federal HD chassis Class 3 GVW 10001-14000)	**Standard Level**	Federal Tier 3 HD Class 3 Bin 230
Fuel	Diesel	**Test Procedure**	SC03

Useful Life	Emission Name	Rounded Result	RAF	NMOG / NMHC	Upward Diesel Adjustment Factor	Downward Diesel Adjustment Factor	Mult DF	Add DF	Std
150,000 miles	CO	--	--	--	0.0007	0	--	0.05	999.999
150,000 miles	NMOG	--	--	1.0	0.0005	0	--	0.0131	999.999
150,000 miles	NOX	--	--	--	0.013	0	--	0.018	999.999
150,000 miles	PM	--	--	--	0.0002	0	--	0.0037	999.999

Certification Summary Information Report

Test Group	SFMXD06.771D	**Evaporative/Refueling Family**	--
Cert Region	Federal	**Cert/In-Use Code**	Both
Vehicle Class	HDV2 (Federal HD chassis Class 3 GVW 10001-14000)	**Standard Level**	Federal Tier 3 HD Class 3 Bin 230
Fuel	Diesel	**Test Procedure**	HWFE

Useful Life	Emission Name	Rounded Result	RAF	NMOG / NMHC	Upward Diesel Adjustment Factor	Downward Diesel Adjustment Factor	Mult DF	Add DF	Std
150,000 miles	METHANE-COMB	--	--	--	0.0015	0	--	0.0008	999.999
150,000 miles	N2O-COMB	--	--	--	0.0006	0	--	0.0438	999.999
150,000 miles	NMOG	--	--	1.0	0.0007	0	--	0.0131	999.999
150,000 miles	NMOG+NOX	--	--	--	0	0	--	0	0.230
150,000 miles	NOX	--	--	--	0.012	0	--	0.018	999.999

Cert Region	California + CAA Section 177 states	**Cert/In-Use Code**	Both
Vehicle Class	MDV7 (Cal. LEV 2/3 MDV GVW 10001-14000)	**Standard Level**	California LEV-III SULEV230
Fuel	Diesel	**Test Procedure**	HWFE

Useful Life	Emission Name	Rounded Result	RAF	NMOG / NMHC	Upward Diesel Adjustment Factor	Downward Diesel Adjustment Factor	Mult DF	Add DF	Std
150,000 miles	METHANE-COMB	--	--	--	0.0015	0	--	0.0008	999.999
150,000 miles	N2O-COMB	--	--	--	0.0006	0	--	0.0438	999.999
150,000 miles	NMOG	--	--	1.0	0.0007	0	--	0.0131	999.999
150,000 miles	NMOG+NOX	--	--	--	0	0	--	0	0.230
150,000 miles	NOX	--	--	--	0.012	0	--	0.018	999.999

Cert Region	Federal	**Cert/In-Use Code**	Both
Vehicle Class	HDV2 (Federal HD chassis Class 3 GVW 10001-14000)	**Standard Level**	Federal Tier 3 HD Class 3 Bin 230
Fuel	Diesel	**Test Procedure**	Hot 1435 LA92

Useful Life	Emission Name	Rounded Result	RAF	NMOG / NMHC	Upward Diesel Adjustment Factor	Downward Diesel Adjustment Factor	Mult DF	Add DF	Std
150,000 miles	CO	--	--	--	0.0009	0	--	0.05	999.999
150,000 miles	NMOG	--	--	1.0	0.0005	0	--	0.0131	999.999
150,000 miles	NOX	--	--	--	0.0167	0	--	0.018	999.999
150,000 miles	PM	--	--	--	0.0001	0	--	0.0037	999.999

Certification Summary Information Report

Test Group	SFMXD06.771D	**Evaporative/Refueling Family**	--
Cert Region	California + CAA Section 177 states	**Cert/In-Use Code**	Both
Vehicle Class	MDV7 (Cal. LEV 2/3 MDV GVW 10001-14000)	**Standard Level**	California LEV-III SULEV230
Fuel	Diesel	**Test Procedure**	Hot 1435 LA92

Useful Life	Emission Name	Rounded Result	RAF	NMOG / NMHC	Upward Diesel Adjustment Factor	Downward Diesel Adjustment Factor	Mult DF	Add DF	Std
150,000 miles	CO	--	--	--	0.0009	0	--	0.05	999.999
150,000 miles	NMOG	--	--	1.0	0.0005	0	--	0.0131	999.999
150,000 miles	NOX	--	--	--	0.0167	0	--	0.018	999.999
150,000 miles	PM	--	--	--	0.0001	0	--	0.0037	999.999

Cert Region	California + CAA Section 177 states	**Cert/In-Use Code**	Both
Vehicle Class	MDV7 (Cal. LEV 2/3 MDV GVW 10001-14000)	**Standard Level**	California LEV-III SULEV230
Fuel	Diesel	**Test Procedure**	SC03

Useful Life	Emission Name	Rounded Result	RAF	NMOG / NMHC	Upward Diesel Adjustment Factor	Downward Diesel Adjustment Factor	Mult DF	Add DF	Std
150,000 miles	CO	--	--	--	0.0007	0	--	0.05	999.999
150,000 miles	NMOG	--	--	1.0	0.0005	0	--	0.0131	999.999
150,000 miles	NOX	--	--	--	0.013	0	--	0.018	999.999
150,000 miles	PM	--	--	--	0.0002	0	--	0.0037	999.999

Certification Summary Information Report

Test Group	SFMXD06.771D	**Evaporative/Refueling Family**	--

Glossary

Useful Life			
4	4,000 miles	120	120,000 miles
50	50,000 miles	150	150,000 miles
100	100,000 miles		

Emission Name			
HC-TOTAL	Total Hydrocarbon	N2O	Nitrous Oxide
CO	Carbon Monoxide	SPITBACK	Spitback Hydrocarbon in grams
CO2	Carbon dioxide	AMP-HRS	Integrated Amp-hours
CREE	Carbon-Related Exhaust Emissions	START-SOC	System Start State of Charge Watt-hours
OPT-CREE	Optional Carbon-Related Exhaust Emissions	END-SOC	System End State of Charge Watt-hours
NOX	Nitrogen Oxide	ACT-DISTANCE	Actual Distance Driven (miles)
PM	Particulate Matter	AS-VOLT	Average System Voltage
PM-COMP	SFTP Composite Particulate Matter	CO2 BAG 1	Bag 1 Carbon Dioxide
HC-NM	Non-methane Hydrocarbon	CO2 BAG 2	Bag 2 Carbon Dioxide
OMHCE	Organic material Hydrocarbon Equivalent	CO2 BAG 3	Bag 3 Carbon Dioxide
OMNMHCE	Organic material non-methane HC equivalent	CO2 BAG 4	Bag 4 Carbon Dioxide
NMOG	Non-methane organic gases	NMOG+NOX	Non-methane organic gases plus Nitrogen Oxides
HCHO	Formaldehyde	NMOG+NOX-COMP	SFTP Composite Non-methane Organic Gases + Nitrogen Oxides
H3C2HO	Acetaldehyde	DT-IWRR	Drive Trace Inertia Work Ratio Rating
HC-NM+NOX	SFTP Non-methane Hydrocarbon + Nitrogen Oxides for US06 or SC03	DT-ASCR	Drive Trace Absolute Speed Change Rating
HC-NM+NOX-COMP	SFTP Composite Non-methane Hydrocarbon + Nitrogen Oxides	DT-EER	Drive Trace Energy Economy Rating
CO-COMP	SFTP Composite Carbon Monoxide	COMB-CREE	Combined Carbon-Related Exhaust Emissions
ETHANOL	C2H5OH - Ethanol	COMB-OPT-CREE	Combined Optional Carbon-Related Exhaust Emissions
FE BAG 1	Bag 1 Fuel Economy	HC-TOTAL-EQUIV	Total Hydrocarbon equivalent - Evap only
FE BAG 2	Bag 2 Fuel Economy	METHANE-COMB	Combined CH4 for HD 2b/3 vehicles only
FE BAG 3	Bag 3 Fuel Economy	N2O-COMB	Combined Nitrous Oxide for HD 2b/3 vehicles only
FE BAG 4	Bag 4 Fuel Economy	LEAK-DIA	Effective Leak Diameter (inches)
MFR FE	Manufacturer Fuel Economy	LEAK-GAS CAP	Gas Cap Leakage (cc/min)
HC	Hydrocarbon for Running Loss and ORVR	CO2-COMB	Combined Carbon Dioxide for HD 2b/3 Vehicles Only
METHANE	CH4 - Methane	KW-HRS	Integrated DC KW-HRS
METHANOL	CH3OH - Methanol		

Certification Region			
CA	California + CAA Section 177 states	FA	Federal

Exhaust Emission Standard Level			
B1	Federal Tier 2 Bin 1	L3ULEV340	California LEV-III ULEV340
B2	Federal Tier 2 Bin 2	L3ULEV250	California LEV-III ULEV250
B3	Federal Tier 2 Bin 3	L3ULEV200	California LEV-III ULEV200
B4	Federal Tier 2 Bin 4	L3SULEV170	California LEV-III SULEV170

Certification Summary Information Report

Test Group	SFMXD06.771D	**Evaporative/Refueling Family**	--
B5	Federal Tier 2 Bin 5	L3SULEV150	California LEV-III SULEV150
B6	Federal Tier 2 Bin 6	L3LEV630	California LEV-III LEV630
B7	Federal Tier 2 Bin 7	L3ULEV570	California LEV-III ULEV570
B8	Federal Tier 2 Bin 8	L3ULEV400	California LEV-III ULEV400
B9	Federal Tier 2 Bin 9	L3ULEV270	California LEV-III ULEV270
B10	Federal Tier 2 Bin 10	L3SULEV230	California LEV-III SULEV230
B11	Federal Tier 2 Bin 11	L3SULEV200	California LEV-III SULEV200
HDV1	HDV1 (Federal HD chassis Class 2b GVW 8501-10000)	T3B160	Federal Tier 3 Bin 160
HDV2	HDV2 (Federal HD chassis Class 3 GVW 10001-14000)	T3B125	Federal Tier 3 Bin 125
L2	California LEV-II LEV	T3B110	Federal Tier 3 Transitional Bin 110
L2OP	California LEV-II LEV Optional	T3B85	Federal Tier 3 Transitional Bin 85
U2	California LEV-II ULEV	T3SULEV30	Federal Tier 3 Transitional LEV-II SULEV30 Carryover
S2	California LEV-II SULEV	T3B70	Federal Tier 3 Bin 70
ZEV	California ZEV	T3B50	Federal Tier 3 Bin 50
OT	Other	T3B30	Federal Tier 3 Bin 30
T1	Federal Tier 1	T3B20	Federal Tier 3 Bin 20
PZEV	California PZEV	T3B0	Federal Tier 3 Bin 0
L2LEV160	California LEV-II LEV160	HDV2B395	Federal Tier 3 HD Class 2b Transitional Bin 395
L2ULEV125	California LEV-II ULEV125	HDV2B340	Federal Tier 3 HD Class 2b Transitional Bin 340
L2SULEV30	California LEV-II SULEV30	HDV2B250	Federal Tier 3 HD Class 2b Bin 250
L2LEV395	California LEV-II LEV395	HDV2B200	Federal Tier 3 HD Class 2b Bin 200
L2ULEV340	California LEV-II ULEV340	HDV2B170	Federal Tier 3 HD Class 2b Bin 170
L2LEV630	California LEV-II LEV630	HDV2B150	Federal Tier 3 HD Class 2b Bin 150
L2ULEV570	California LEV-II ULEV570	HDV2B0	Federal Tier 3 HD Class 2b Bin 0
L3LEV160	California LEV-III LEV160	HDV3B630	Federal Tier 3 HD Class 3 Transitional Bin 630
L3ULEV125	California LEV-III ULEV125	HDV3B570	Federal Tier 3 HD Class 3 Transitional Bin 570
L3ULEV70	California LEV-III ULEV70	HDV3B400	Federal Tier 3 HD Class 3 Bin 400
L3ULEV50	California LEV-III ULEV50	HDV3B270	Federal Tier 3 HD Class 3 Bin 270
L3SULEV30	California LEV-III SULEV30	HDV3B230	Federal Tier 3 HD Class 3 Bin 230
L3SULEV20	California LEV-III SULEV20	HDV3B200	Federal Tier 3 HD Class 3 Bin 200
L3LEV395	California LEV-III LEV395	HDV3B0	Federal Tier 3 HD Class 3 Bin 0

Transmission Type Code			
AMS	Automated Manual- Selectable (e.g. Automated Manual with paddles)	M	Manual
A	Automatic	OT	Other
AM	Automated Manual	SA	Semi-Automatic
CVT	Continuously Variable	SCV	Selectable Continuously Variable (e.g. CVT with paddles)

Drive System Code			
4	4-Wheel Drive	P	Part-time 4-Wheel Drive
F	2-Wheel Drive, Front	A	All Wheel Drive

Certification Summary Information Report

Test Group	SFMXD06.771D	**Evaporative/Refueling Family**	--
R	2-Wheel Drive, Rear		

Additional Terms and Acronyms

AFC	Alternative Fuel Converter	ICI	Independent Commercial Importer
CSI	Certificate Summary Information	ORVR	Onboard Refueling Vapor Recovery
DF	Deterioration Factor	SIL	Shift Indicator Light
Evap	Evaporation, Evaporative	Trans	Transmission

SECTION 8

Emission Testing Waiver Statements and Statements of Compliance

Statement of Compliance for test group SFMXD06.771D

Ford Motor Company's test and production vehicles do not have defeat devices. All AECDs have been declared and described in the application. This test group has been designed and engineered to comply with 40 CFR 86.1809-12 (prohibition of defeat devices), satisfies 40 CFR 86.1844-01 (application submittal requirements for AECDs), and does not utilize alternate emissions control maps that are unique for testing purposes relative to on-road operation.

Ford describes the transmission controls and potential interaction effects within the confidential AECD documentation found in section 16.05.00 of the common section area of the application submittals. This documentation covers the purpose, inputs, controlled actions, and justifications. For example, as referenced in the Drive Speed Control section of that document, the transmission can receive requests from the ECU to delay upshifts based on cold engine coolant temperature and/or low inferred catalyst temperature to assist with engine or catalyst warm-up.

Ford does not attempt to discern whether the vehicle is operating on a dynamometer or on the road. However, there are certain conditions that can cause

the transmission to operate differently based on the sensed inputs that may not be encountered during dynamometer testing. For example, when climbing grades or when towing the transmission will make gear ratio adjustments to compensate against excessive engine lugging and reduced vehicle response. There can also be unique transmission scheduling in different customer selectable drive modes, such as EcoSelect, Sport, Snow, Rock Crawl, etc. The types of conditions that are anticipated to cause transmission adjustments are described in the confidential AECD descriptions located in 16.05.00 of the common section. For customer-selectable drive modes that could reasonably be driven over emission test cycles, Ford evaluates emission performance to assure that these modes meet applicable emission standards.

Special dynamometer test modes are required for certain vehicle technologies such as start/stop and HEVs to assure that fault conditions are not set while operating on two-wheel drive dynamometers. This allows the vehicles to behave normally, as they would on the road, rather than causing default/FMEM actions to occur due to significant wheel speed differences between the front and rear axles.

For additional statements of compliance, please refer to Section 14.01.00.00 of the Common Section.

SECTION 9

OBD-II System Description

For a description of the OBD System utilized for this Test Group, refer to Section 16.06.00.00 of the Common Section.

SECTION 11

AECD Description

For a description of the AECDs utilized in this Test Group,
refer to Section 16.00.05.00 of this application,
and 16.05 of the Common Section.

SECTION 12

Description of Vehicles Covered by Certificate and Testing Parameters

Vehicle Program: F-Series Super Duty Diesel

Test Group Information	
Vehicle/Engine Class	HDV2/MDV
Vehicle Fuel Category	*Single Fuel*
Operating Fuel 1	*Diesel*
Operating Fuel 2	*Diesel*

Engine Displacement (liters)	6.7L
Engine Cooling medium	OAT Coolant
SAE net HP @ RPM (prem fuel)	475 hp @ 2600 rpm
SAE net HP @ RPM (prem fuel)	
SAE net HP @ RPM (prem fuel)	
SAE net torque ft-lb @ RPM (prem fuel)	1050 ft-lbs @ 1600 rpm
SAE net torque ft-lb @ RPM (prem fuel)	
Cylinder Deactivation	N
Variable Valve Timing (VVT)	N
Variable Valve Lift	N
Number of Inlet Valves Per Cylinder	2
Number of Exhaust Valves Per Cylinder	2
Air Aspiration Method*	*Turbocharged (TC)*
Number of Air Aspiration Devices	1
Air Aspiration Configuration	*N=Single*
Charge Air Cooler Type* (TG-51)	*Liquid*
Number of Charge Air Cooler	1
Charge Air Cooler Configuration	*Single*

Exhaust Emission Control System:	
Exhaust Gas Recirculation (EGR)*	Yes
Cooled EGR	Yes
EGR Type	*EEGR=Electronic/Electric*
Electronic Controls	PCM
Closed Loop Air Injection System	N
Air injection Type (AIR)*	NA=Not applicable
Location of injected air	None
Direct Ozone Reduction (DOR) Device	NE=Not equipped

Calibrations that Vary with Time or Dist.	See Common Section
Maintenance Schedule	*Normal*
Compression ratio (nominal)	15.2:1
Cylinder head design Ref. (08.05)	OHV

Camshaft Timing: (with VCT fully advanced) Cam Phase – Computer Controlled	no VCT
Int valve opens (° BTDC)	18.3
Int valve closes (° ABDC)	35.7
Int valve duration (°)	234
Int valve maximum lift (mm)	8.44
Exh valve opens (° BBDC)	44.2
Exh valve closes (° ATDC)	9.8
Exh valve duration (°)	234
Exh valve maximum lift (mm)	7.93
Valve lash (N/A for RFF)	Hydraulic Lash Adj

Fuel Metering System	Direct Diesel (DDI)

After-Treatment Device Information	
After-Treatment Type	DPF=Diesel Particulate Filter
After-Treatment Configuration	DOC, SCR, NH3OC, DEC/DPF
After-Treatment Type/size/code	Ref. 16.00.01
Feedback Sensor Type:	
Knock sensor	NO
Oxygen sensor (O_2S)*	NO
Heated oxygen sensor (HO_2S)*	NO
Air/Fuel Sensor (AFS)*	NO
Heated Air/Fuel Sensor (HAFS)*	NO
Feedback Sensor Configuration	NOx Sensor (2)

Test Group: SFMXD06.771D
Issued: August 19, 2024

* - VECI Label Content

12.00.01.00 Common Family Parameters – Test Group SFMXD06.771D

Vehicle Program: F-Series Super Duty Diesel

Test Group Information	
Vehicle/Engine Class	HDV2/MDV
Vehicle Fuel Category	*Single Fuel*
Operating Fuel 1	*Diesel*
Operating Fuel 2	*Diesel*

Engine Displacement (liters)	6.7L
Engine Cooling medium	OAT Coolant
SAE net HP @ RPM (prem fuel)	500 hp @ 2600 rpm
SAE net HP @ RPM (prem fuel)	
SAE net HP @ RPM (prem fuel)	
SAE net torque ft-lb @ RPM (prem fuel)	1200 ft-lbs @ 1600 rpm
SAE net torque ft-lb @ RPM (prem fuel)	
Cylinder Deactivation	N
Variable Valve Timing (VVT)	N
Variable Valve Lift	N
Number of Inlet Valves Per Cylinder	2
Number of Exhaust Valves Per Cylinder	2
Air Aspiration Method*	*Turbocharged (TC)*
Number of Air Aspiration Devices	1
Air Aspiration Configuration	*N=Single*
Charge Air Cooler Type* (TG-51)	*Liquid*
Number of Charge Air Cooler	1
Charge Air Cooler Configuration	*Single*

Exhaust Emission Control System:	
Exhaust Gas Recirculation (EGR)*	Yes
Cooled EGR	Yes
EGR Type	*EEGR=Electronic/Electric*
Electronic Controls	PCM
Closed Loop Air Injection System	N
Air injection Type (AIR)*	NA=Not applicable
Location of injected air	None
Direct Ozone Reduction (DOR) Device	NE=Not equipped

Calibrations that Vary with Time or Dist.	See Common Section
Maintenance Schedule	*Normal*
Compression ratio (nominal)	15.2:1
Cylinder head design Ref. (08.05)	OHV

Camshaft Timing: (with VCT fully advanced) Cam Phase – Computer Controlled	no VCT
Int valve opens (° BTDC)	18.3
Int valve closes (° ABDC)	35.7
Int valve duration (°)	234
Int valve maximum lift (mm)	8.44
Exh valve opens (° BBDC)	44.2
Exh valve closes (° ATDC)	9.8
Exh valve duration (°)	234
Exh valve maximum lift (mm)	7.93
Valve lash (N/A for RFF)	Hydraulic Lash Adj

Fuel Metering System	Direct Diesel (DDI)

After-Treatment Device Information	
After-Treatment Type	DPF=Diesel Particulate Filter
After-Treatment Configuration	DOC, SCR, NH3OC, DEC/DPF
After-Treatment Type/size/code	Ref. 16.00.01
Feedback Sensor Type:	
Knock sensor	NO
Oxygen sensor (O_2S)*	NO
Heated oxygen sensor (HO_2S)*	NO
Air/Fuel Sensor (AFS)*	NO
Heated Air/Fuel Sensor (HAFS)*	NO
Feedback Sensor Configuration	NOx Sensor (2)

Test Group: SFMXD06.771D
Issued: August 19, 2024

* - VECI Label Content

Initial Cert and Running Changes

12.00.02.00 Calibration Descriptions - SFMXD06.771D

Exhaust Calibration	Certification Code	Application	Transmission	Leak Check	Vehicle
STFHY3ND05	STFHY3ND0100	50s	10R140	n/a	F250/F350 SRW H.O.
STFHY3ND06	STFHY3ND0101	50s	10R140	n/a	F250/F350 SRW H.O.
STFHY3ND07	STFHY3ND0102	50s	10R140	n/a	F250/F350 SRW H.O.
STFHTRNM05	STFHTRN20100	50s	10R140	n/a	F250 SRW
STFHTRNM06	STFHTRN20101	50s	10R140	n/a	F250 SRW
STFHTRNM07	STFHTRN20102	50s	10R140	n/a	F250 SRW
STFHTRNM05	STFHTRN30100	50s	10R140	n/a	F350 SRW
STFHTRNM06	STFHTRN30101	50s	10R140	n/a	F350 SRW
STFHTRNM07	STFHTRN30102	50s	10R140	n/a	F350 SRW
STFHTRNP05	STFHTRN40100	50s	10R140	n/a	F350 DRW 3.55 fdr
STFHTRNP06	STFHTRN40101	50s	10R140	n/a	F350 DRW 3.55 fdr
STFHTRNP07	STFHTRN40102	50s	10R140	n/a	F350 DRW 3.55 fdr
STFHTRNP05	STFHTRN50100	50s	10R140	n/a	F350 DRW 4.10 fdr
STFHTRNP06	STFHTRN50101	50s	10R140	n/a	F350 DRW 4.10 fdr
STFHTRNP07	STFHTRN50102	50s	10R140	n/a	F350 DRW 4.10 fdr
STFHY3NS05	STFHY3NS0100	50S	10R140	n/a	F350 DRW 3.55 fdr, H.O.
STFHY3NS06	STFHY3NS0101	50S	10R140	n/a	F350 DRW 3.55 fdr, H.O.
STFHY3NS07	STFHY3NS0102	50S	10R140	n/a	F350 DRW 3.55 fdr, H.O.
STFHY3NS05	STFHY3NT0100	50S	10R140	n/a	F350 DRW 4.10 fdr, H.O.
STFHY3NS06	STFHY3NT0101	50S	10R140	n/a	F350 DRW 4.10 fdr, H.O.
STFHY3NS07	STFHY3NT0102	50S	10R140	n/a	F350 DRW 4.10 fdr, H.O.
STFHTRNW05	STFHTRN60100	50s	10R140	n/a	F450 DRW
STFHTRNW06	STFHTRN60101	50s	10R140	n/a	F450 DRW
STFHTRNW07	STFHTRN60102	50s	10R140	n/a	F450 DRW
STFHY3NX05	STFHY3NX0100	50s	10R140	n/a	F450 DRW H.O.
STFHY3NX06	STFHY3NX0101	50s	10R140	n/a	F450 DRW H.O.
STFHY3NX07	STFHY3NX0102	50s	10R140	n/a	F450 DRW H.O.

Reference Specifications

Idle RPM	PCM Controlled
Target (BASE) in Drive (A/C-off / A/C-on) – F250, F350	530/530 RPM A/T
Target (BASE) in Drive (A/C-off / A/C-on) – F450	600/600 RPM A/T
Target (BASE) in Neutral (A/C-off / A/C-on) – ALL	600/600 RPM A/T

Special conditions which may require idle speeds higher than BASE are listed below:

Potential Idle Speed Modifier	Function Utilized (Y/ N)	Purpose
Low or high air charge temperature	N	Heater, A/C or engine cooling performance
Low catalyst temperature	N	Achieve/maintain light off
Low engine coolant temperature	Y	Combustion stability
Low or high ambient temperature	Y	Heater or A/C performance
High transmission oil temperature	Y	Ensure adequate fluid pressure
Low battery voltage	Y	Avoid stalling or no-start
High Alternator load	Y	Preserve battery life and avoid low voltage
High-speed fan operation	N	For engine and A/C condenser cooling
Extended neutral idle time	N	Maintain catalyst temperature
Power steering pressure	Y	Ensure adequate P/S assistance
High Altitude	N	Maintain air mass flow to avoid stalling
Alternate calibration	N	Use to prevent issues during plant drives/marshalling
Drive Speed Control or Shift Delay	Y	Increase engine speed to maintain exhaust temperature

Fuel Injector — Base Output: 132.6 mg/stroke @ max power

	High Output: 137.7 mg/stroke @ max power
Fuel Pressure Reg	0 - 2500 bar (36,250 psi)
Crankcase CCV Valve	Integrated Pressure Regulator 0-250 Liters/min
EGR valve	0 - 130 kg/hr
High Temp Thermostat (2)	Start to Open: 90ºC (1) Start to Open: 94ºC (2)
Low temp Thermostat	Start to Open: 25ºC

Powertrain Control Module (PCM) -- PCM controlled calibrations for emission-related components are described in the AECD section 16.05.

2025 MY 6.7L SUPER DUTY
Chassis Exhaust Emissions Parts List
Over 10K

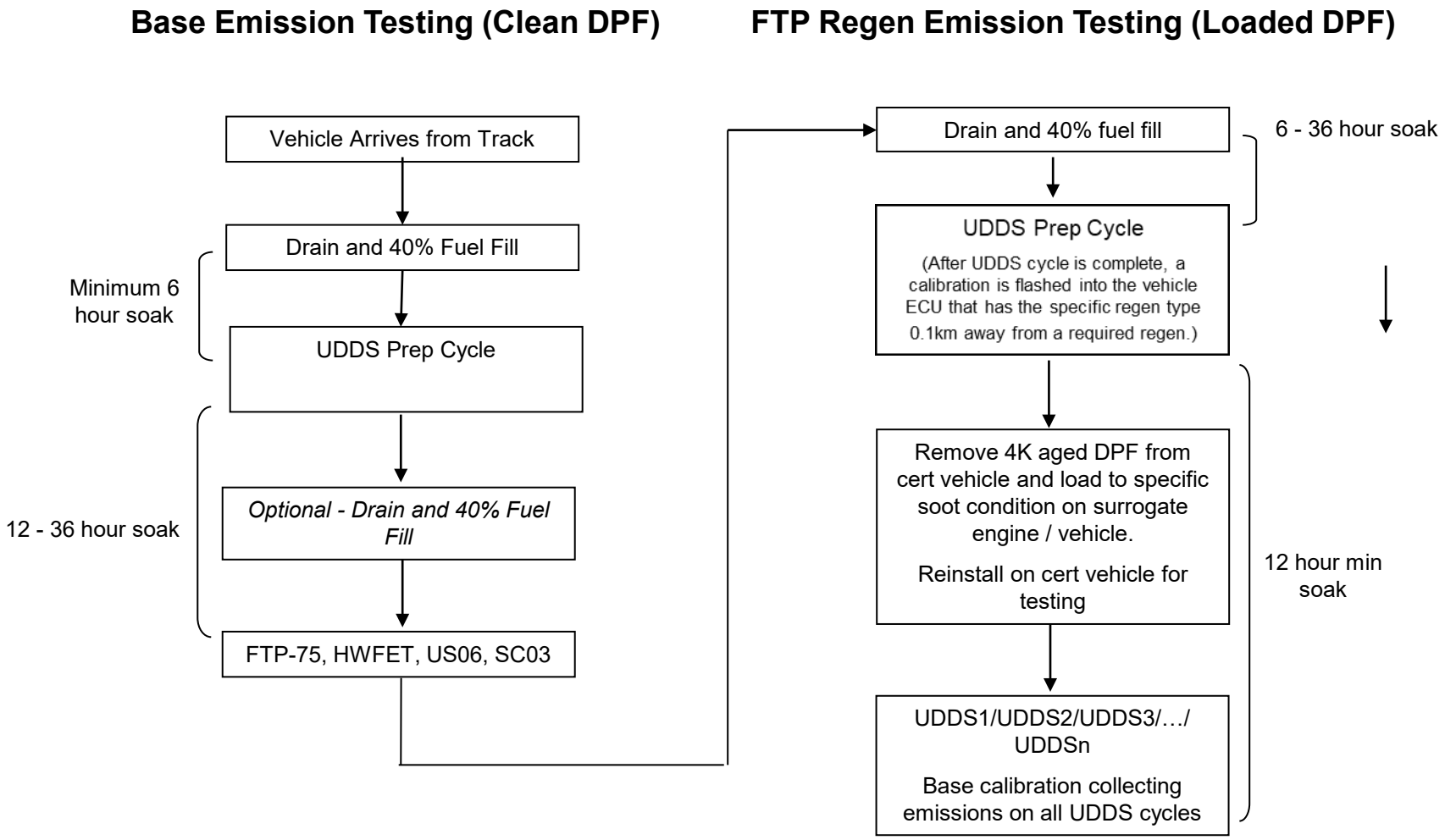
Engine Family(ies)	Certification Level	Certification Code	Calibration(s)	w/PCM Assembly Part #	TCM
SFMXD06.771D	Initial	STFHY3ND0100	STFHY3ND05	PSC3A-12A650-ANA	PSC3A-12B565-GA
SFMXD06.771D	R06	STFHY3ND0101	STFHY3ND06	PSC3A-12A650-ANB	PSC3A-12B565-GB
SFMXD06.771D	R07	STFHY3ND0102	STFHY3ND07	PSC3A-12A650-ANC	PSC3A-12B565-GB
SFMXD06.771D	Initial	STFHTRN20100	STFHTRNM05	PSC3A-12A650-APA	PSC3A-12B565-JA
SFMXD06.771D	R06	STFHTRN20101	STFHTRNM06	PSC3A-12A650-APB	PSC3A-12B565-JB
SFMXD06.771D	R07	STFHTRN20102	STFHTRNM07	PSC3A-12A650-APC	PSC3A-12B565-JB
SFMXD06.771D	Initial	STFHTRN30100	STFHTRNM05	PSC3A-12A650-APA	PSC3A-12B565-GA
SFMXD06.771D	R06	STFHTRN30101	STFHTRNM06	PSC3A-12A650-APB	PSC3A-12B565-GB
SFMXD06.771D	R07	STFHTRN30102	STFHTRNM07	PSC3A-12A650-APC	PSC3A-12B565-GB
SFMXD06.771D	Initial	STFHTRN40100	STFHTRNP05	PSC3A-12A650-AHA	PSC3A-12B565-GA
SFMXD06.771D	R06	STFHTRN40101	STFHTRNP06	PSC3A-12A650-AHB	PSC3A-12B565-GB
SFMXD06.771D	R07	STFHTRN40102	STFHTRNP07	PSC3A-12A650-AHC	PSC3A-12B565-GB
SFMXD06.771D	Initial	STFHTRN50100	STFHTRNP05	PSC3A-12A650-AHA	PSC3A-12B565-HA
SFMXD06.771D	R06	STFHTRN50101	STFHTRNP06	PSC3A-12A650-AHB	PSC3A-12B565-HB
SFMXD06.771D	R07	STFHTRN50102	STFHTRNP07	PSC3A-12A650-AHC	PSC3A-12B565-HB
SFMXD06.771D	Initial	STFHY3NS0100	STFHY3NS05	PSC3A-12A650-AJA	PSC3A-12B565-GA
SFMXD06.771D	R06	STFHY3NS0101	STFHY3NS06	PSC3A-12A650-AJB	PSC3A-12B565-GB
SFMXD06.771D	R07	STFHY3NS0102	STFHY3NS07	PSC3A-12A650-AJC	PSC3A-12B565-GB
SFMXD06.771D	Initial	STFHY3NT0100	STFHY3NS05	PSC3A-12A650-AJA	PSC3A-12B565-HA
SFMXD06.771D	R06	STFHY3NT0101	STFHY3NS06	PSC3A-12A650-AJA	PSC3A-12B565-HB
SFMXD06.771D	R07	STFHY3NT0102	STFHY3NS07	PSC3A-12A650-AJA	PSC3A-12B565-HB
SFMXD06.771D	Initial	STFHTRN60100	STFHTRNW05	PSC3A-12A650-AMA	PSC3A-12B565-HA
SFMXD06.771D	R06	STFHTRN60101	STFHTRNW06	PSC3A-12A650-AMB	PSC3A-12B565-HB
SFMXD06.771D	R07	STFHTRN60102	STFHTRNW07	PSC3A-12A650-AMC	PSC3A-12B565-HB
SFMXD06.771D	Initial	STFHY3NX0100	STFHY3NX05	PSC3A-12A650-AKA	PSC3A-12B565-HA
SFMXD06.771D	R06	STFHY3NX0101	STFHY3NX06	PSC3A-12A650-AKB	PSC3A-12B565-HB
SFMXD06.771D	R07	STFHY3NX0102	STFHY3NX07	PSC3A-12A650-AKC	PSC3A-12B565-HB

---------- All Other Exhaust Emission Parts ---------

Part Name (Quantity if more than 1)	Part Number
Engine	SC3Q-6007-DA/GA
Fuel Tank	PC34-9K007-DG/MH/BH
Catalyst/Filter Assembly	PC34-5H240-DJ
Converter/Pipe Assembly	PC34-5E211-AF
Muffler/Outlet Pipe Assembly	PC34-5K214-CF/FF
Camshaft Position Sensor	P2GA-12K073-BB
Crankshaft Position Sensor	LC3A-6C315-AB
Oil Separator	SC3Q-6A785-AB
EGR Gasket W/Orifice	BC3Q-9D476-EA
EGR Vacuum Solenoid Valve	JC3Q-9F454-AA

EGR Valve Assy.	HC3Q-9D475-AD
EGR Cooler Bypass	HC3Q-9U433-AB
EGR Cooler	HC3Q-9U466-AE
EGR Coolant Temperature Sensor	BC3A-12B591-BB
	FC3A-12B591-AB
EGR Inlet Tube	LC3Q-9E469-AA
Fuel Injector (8)	PC3Q-9K546-AB/BA
Fuel Volume Control Valve	BC3Q-9J307-AA
Low Pressure Fuel & Temperature Sensor	LC3Q-9G756-AB
High Fuel Rail Pressure Sensor	PC3Q-9F838-AA
Fuel Rail Pressure Sensor (part of Rail Assy)	LC3Q-9D280-AA
	PC3Q-9D280-BA
Fuel Pressure Regulator Control	LC3Q-9C968-AA
High Pressure Fuel Pump	PC3Q–9B395-AA
Mass Air Flow Sensor	PC3A-12B579-AB
Manifold Absolute Pressure Sensor (MAP)	LC3A-9F479-AB
Feedgas NOx Sensor Assembly	PC3A-5L248-AD
Feedgas NOx Control Module (component of -5L248-)	PC3A-5K202-AD
Tailpipe NOx Sensor Assembly	PC3A-5E145-AD
Tailpipe NOx Control Module (component of -5E145-)	PC3A-5L234-AD
Electric Throttle Body	LC3Q-9F991-AA
DSL Part Filter Pressure Inlet	PC3A-5H295-AD/CE
Urea Injector	PC34-5J281-CC
Urea Heated Resv (SCR Tank Assembly)	PC34-5J228-AJ
ADM (Adblue Delivery Module) (component of -5J228-)	PU5A-5L279-AD
Urea Supply Module (component of -5J228-)	PU5A-5J229-AC
EGT Sensor Assembly	PC3A-12C558-DC
Turbocharger Assembly	PC3Q-9G438-CD/ED
Turbocharger Electric Actuator Assembly	PC3Q-9G488-AA
Glow Plug	LC3Q-6M090-AB
GDM (Glow Dosing Module)	RC3A-12C550-AA
Engine Coolant Temp. Sensor (ECT)	JL3A-12A648-BA
Ambient Temp. Sensor	M2DT-12A647-AC
Intake Air Temperature Sensor (IAT)	DS7A-12A697-AA
Air Cleaner Assembly	PC34-9600-AB/AC
Thermostat	BC3Q-8575-DB
Vac Pump Assembly	HC3Q-2A451-CA
Particulate Matter Sensor and Module Assembly	PC3A-5L239-BA
Charge Air Cooler	HC34-6K775-CB

Diesel Test Process



The above sequence is conducted twice, once for DSI Regen and once for DeSox Regen.

12.00.04.00-01

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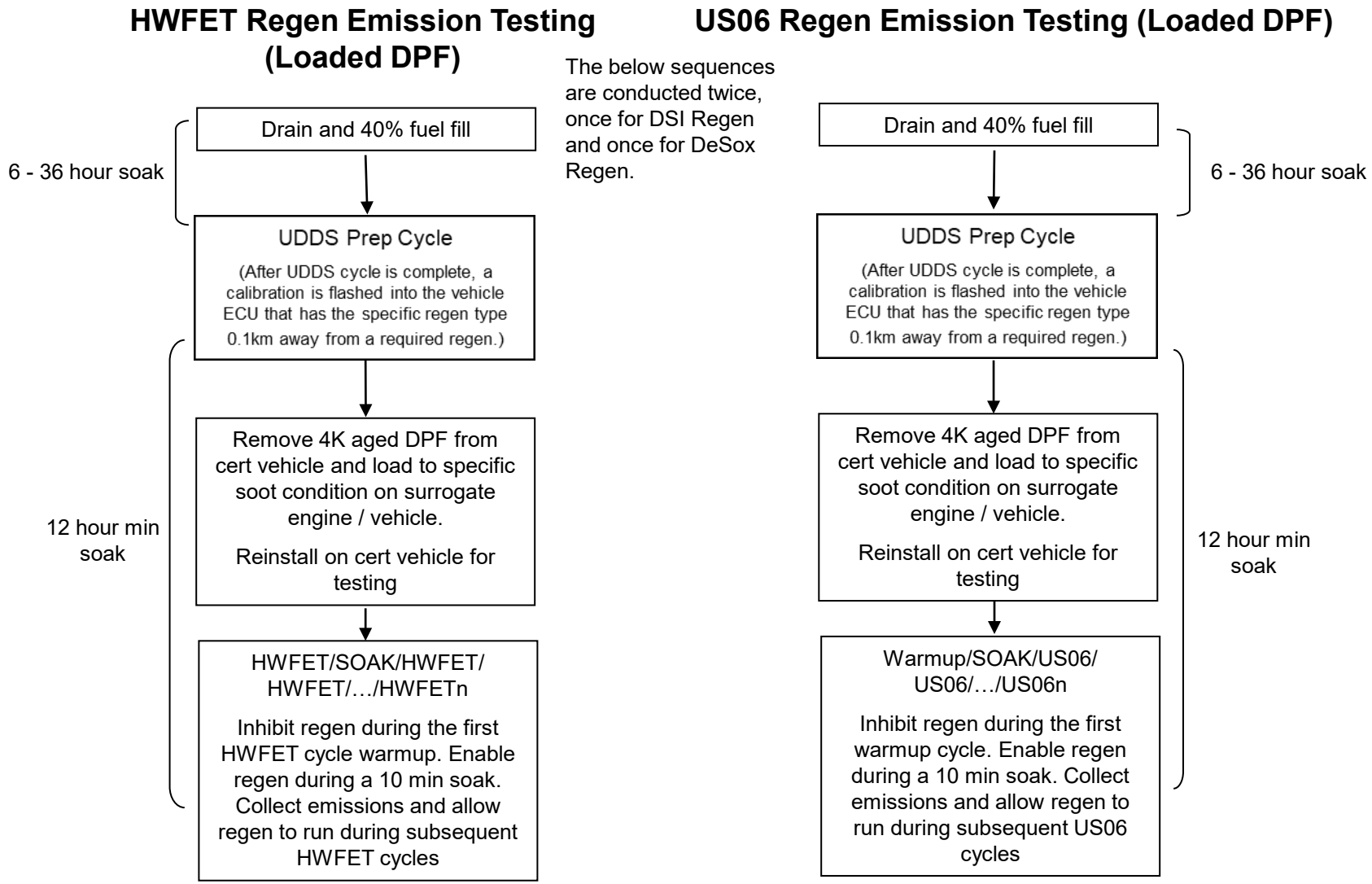
Diesel Test Process



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2025 TEST VEHICLE REQUIREMENTS

	Durability Data Vehicle	CAP2000 Emission Data Vehicle Exhaust
Evap. Emission Family	N/A	N/A
Displacement Liters	6.7L	6.7L
Engine Code	cc065_f350_o10_HO_DF5	PTFHTRNT00
Fuel Tank Code	TV	TZ
Catalyst Code	*	*
Exhaust Control System	TC/ DFI/ CAC/ EGR/ EGR-C/ OC/DPF/ SCRC/ NOXS/ RDQS/ NH3OC/PMS	TC/ DFI/ CAC/ EGR/ EGR-C/ OC/DPF/ SCRC/ NOXS/ RDQS/ NH3OC/PMS
Model	F350 4x4 DRW	F-350 4x4 Reg Cab DRW
Transmission	Auto-10R140	Auto-10R140
Shift Schedule	N/A	N/A
Equivalent Test Weight	11500 lbs	11500 lbs
THP/DPA	f_0=89.44, f_1=0.497, f_2=0.07416	f_0=89.44, f_1=0.497 f_2=0.07416
Axle Ratio	4.10	4.10
N/V Ratio - RPM/MPH		30.5
Tires	LT245/75R17	LT245/75R17
ACTUAL TEST VEHICLES		
Model Year	2023	2023
Engine Family	PFMXD06.771D	PFMXD06.771D
Vehicle ID No	PFH1-6.7-348	PFH1-6.7-J-608
Configuration Number	NA	0

* See Section 16

Calibration and Hardware Revision Summary

R06 Calibration level and changes:

ENGINE CONTROL STRATEGY (PCM / ECM) CHANGES:

Old Strategy Name: DCYS0
New Strategy Name: DCYS1
P2094_1310 Bosch SW Update:
1. FDEC_Err_1309.Eng.UBIS.Wrong upper and lower limits of DTR_PFltEffPS after the FCM clear – fix for deviation from OBDII software specification. impact to self cert.
2. FDEC.Safety_AD_ENGSUP_00059 - Upfitter Enhancement Remote Engine Control - Functional Safety -> Content delayed to 26MY. Disabled.
3. FDEC.OBD_ENGSUP-00068-PTO Regulatory PID $F41E update - Upfitter enhancement -> Upfitter enhancement delayed to 26MY. Disabled, leaving carryover F41E functionality.

DAT (Diesel Aftertreatment) SW KR280 Update
1. DECAT-1090 Urea level and concentration missing signal monitors inhibit for minimum distance and vehicle speed
2. DECAT-1068 AECD timers changes for frozen urea conditions when Urea injection is disabled -> SW content is calibrated to ensure carryover functionality
3. DECAT-1003 LTA values shall be routed from SCRCtlFB to SCRCtlDID and subsequently to the dat interface for exporting DIDs
4. DECAT-996 DAT NvM error handling does not account for NVM_REQ_PENDING response from NvM_GetErrorStatus() [port solution to IK]
5. Missing DPF monitor - delay mass flow input -> no functional impact
6. DECAT-773 SCRMonEff Mass Flow Calculation in Single SCR P703 Bundle 1.6 PL8 - Feature calibrated for transparent operation, specific for P703.t required for P708.
7. DECAT-683 PM sensor prognostics extended histogram - DAT implementation
8. DECAT-682 PM sensor coarse monitor - DAT implementation
9. DECAT-700 Post injection split number error fix
10. DECAT-675 PM sensor coarse monitor - Interface update

CKN (Kernal Communication) SW KC340 Update
1. DECCOM-136 Upfitter enhancement (P708 MY25 + MY27) -> Content delayed to 26MY. Disabled
2. DECCOM-132 CDD update - $EF1A Prognostics Diesel Particulate Filter Efficiency Data
3. DECCOM-153V3 ICA3 update - Periodic call to Com_IpduGroupControl - specific to V3 application, carried over to P708
4. DECCOM-152; DECCOM-150Carryover V710 mechanism for conditional frame enabling - specific to V710 application, carried over to P708

CPV SW KS130 Update
1. DECVEH-102 FDEC.Veh_C-PF_ENGSUP-00078 - FDEC2_2216.550 CPF Interfaces implementation - Content not used on P708. Disabled.
2. DECVEH-96 Upfitter (VFL) enhancement experimental - KS120_exp CPV - Content not delayed to 26MY. Disabled.

ENGINE CALIBRATION CHANGES:

Changes below have no impact to emissions
1. Enhanced Upfitter 4 functionality was originally planned for 25MY. This content has now been deferred to 26MY. PTO and remote engine shutdown (REC) SW that was added to support this functionality has been disabled to ensure carryover functionality.
2. Maximum allowable a/c compressor duty cycle is reduced for A/C high head pressure. Update requested by climate team to help improve compressor durability.
3. A/C and fan robustness actions to help improve compressor durability.

4. Fan update to support new SRW Fan Clutch Update for 25MY P708. Calibration update provides carry over functionality with new Fan Clutch.

ENGINE OBD CHANGES:

1. P0315 (Crankshaft Position System Variation t Learned) - Add DTC Fault Type 3rd Bytes Descriptions for future field quality analysis use P0315-54=DFC_FBCMonWheelLrn_0, P0315-00=DFC_MDSegTiAdpn 1
2. P0315 (Crankshaft Position System Variation t Learned) - Block P0315 DTC from setting when P0335(Crank sensor no signal) or P0336(Crank sensor signal errror) are set
3. U1013(Invalid Internal Control Module Monitoring Data Received from TCM) - Add DTC Fault Type 3rd Byte description for future field quality analysis of U1013-86 = DFC_MoFTra_GTI
4. PID F465 - Enable flag to indicate the status of PTO
5. PID F48B - Update bitmask to include Service Regen (EOM7) and DeSOx (EOM10) regen levels in status.
6. PID F48E - Enable freeze frame data
7. Update DID to allow for MB and TP sensor heating status to be read.Previously, DIDs for all 3 sensor instances were pointing to FG.This change points the MB and TP DIDs to the correct sensor instance.
8. P2002 (Particulate Filter Efficiency Below Threshold Bank1): Change DID test result number resolution, no functional impact
9. P2201 (Feedgas NOx Plausibility monitor): For improved robustness against false DTC's, modify threshold with DOC age multiplier change during DOC degreen period (initial low vehicle mileage)
10. P206B (Reductant Quality Sensor Range/Performance) & P203B (Reductant Level Sensor "A" Circuit Range/Performance) - Add entry condition requiring vehicle to travel 0.5 km, for additional robustness against false detection. Calibrate bypass of this distance traveled entry condition, when vehicle is in speed limited final inducement mode.
11. For more accurate DTC descriptions on CKCP sensors: U060E (Lost Communication with Crankcase Pressure Sensor "A") had change to 2 Trip MIL from Off for reassigned DFC's. U01C3(Lost Communication With Crankcase Oil Separator "A") DTC changed to 2 Trip MIL from Off.

TRANSMISSION CONTROL (PCM / TCM) STRATEGY CHANGES:

Old TCM Strategy Name: TZZR0
New TCM Strategy Name: TZZS0
The following strategy changes were included in TZZS0 from TZZR0
• URD 95314: Update UTCU4 P708 programs to FT3-280 LLD (Vitesco reported a cyber security gap on the UTCU4. This release of the LLD fixes this issue)
• URD 95167: TFM: Command High Side Drivers OFF when Upfitter CIM has engine pulled down (logic is disabled for now)

TRANSMISSION / DRIVELINE CALIBRATION CHANGES:

• Upshift pressure control updates to improve shift quality.
• 4-3 coastdown pressure-control improvement.
• 4 Element-Shift(4es) time-to-finish (TTF) buffers to improve pressure-control robustness.
• Modify min clip for trans transfer function adaptive (TCTFA) clutch curve15 (Clu E for Drive engagement)
• Speed control improvement to avoid unintended 10-8 donwshift on speed control resume.
• Change to display correct messaging when switching between 4x4H and 4x4L modes.
• Updated Transmission OBD bitmaps to inhibit sending an EPB request in Park when there is either an ABS CAN fault, or ABS is reporting both driven wheel sensors are faulted.
• Calibration changes to comply with CFX, APR guidelines. Change only effects percent grade in which Electronic Park Brake is applied when in Park.

TRANSMISSION OBD CHANGES:

Transmission OBD–

• P060A (Internal Control Module Monitoring Processor Performance) – MIL – Updated Executive IPC low level driver version (1311233 to 1311490) to correspond with the software update contained in these calibration

• P060B (Internal Control Module Torque Calculation Performance) – MIL – Updated Transmission IPC Output Shaft Sensor speed to ABS vehicle speed comparison thresholds (MAX – 1.3 to 1.15 and MIN – 0.7 to 0.85) to add robustness against improper determination of 4L during wheel speed sensor dropouts at low speed.

GLOW DOSING MODULE (GDM) CHANGES:

P20A5 (Reductant Purge Control Valve "A" Stuck Closed) - Software issue in the purging of the DEF line after engine shut down. Calibration change to eliminate an extra pump stroke that can cause a false P20A5.

SCRMon-pPRednrmThresMax_C old 1000, new 3500 hPa. For improved robustness against false detection.

HARDWARE CHANGES:

TCM hardware update:

Description: Primary Bootloader (PBL) update to the existing TCM hardware

• Vitesco (supplier) updated the PBL for all the UTCU4 TCMs to fix a cybersecurity gap they identified.

R07 calibration levels and changes:

ENGINE CALIBRATION CHANGES:

Change Degreen Regen Mode fromEOM2 to EOM10 regen for first cycle, to improve catalyst efficiency at low mileage & increase robustness against false green catalyst P20EE DTC's.

ENGINE OBD CHANGES:

1. P20EE (SCR NOx Catalyst Efficiency Below Threshold Bank 1 Catalyst 1) - Increase DOC age threshold to match Degreen EOM10 mode burn off regen change, with no impact on monitor detection
2. P2201 (NOx Sensor Circuit Range/Performance Bank 1 Sensor 1) - Increase P2201 DOC age modifier to match Degreen EOM10 mode burn off regen change, with no impact on monitor detection

Vehicle Description Report

Application: 50ST

Test Group: SFMXD06.771D

ID Number	5250059	5250124	5250087	5250067	5250047	5250092	5250083	5250341
Displacement	6.7	6.7	6.7	6.7	6.7	6.7	6.7	6.7
Cert Code	STFHTRN20100	STFHTRN20100	STFHTRN20100	STFHTRN20100	STFHTRN20100	STFHTRN20100	STFHTRN20100	STFHY3ND0100
Fuel Tank(s)	TV	TU	TU	TU	TU	TZ	TZ	TV
Carline	F250 PICKUP 2WD DIESEL	F250 PICKUP 2WD DIESEL	F250 PICKUP 2WD DIESEL	F250 PICKUP 2WD DIESEL	F250 PICKUP 2WD DIESEL	F250 PICKUP 2WD DIESEL	F250 PICKUP 2WD DIESEL	F250 PICKUP 2WD DIESEL
Wheel Configuration	SINGLE REAR WHEELS	SINGLE REAR WHEELS	SINGLE REAR WHEELS	SINGLE REAR WHEELS	SINGLE REAR WHEELS	SINGLE REAR WHEELS	SINGLE REAR WHEELS	SINGLE REAR WHEELS
Body Style	Regular Cab	Super Cab	Super Cab	Super Crew	Super Crew	Super Crew	Super Crew	Regular Cab
Wheelbase	142.0	164.0	164.0	160.0	160.0	175.5	175.5	142.0
Transcode Combo	ESC	ESC	ESC	ESC	ESC	ESC	ESC	ESC
Curb Weight	6549	6979	7107	6945	7073	7192	7320	6692
ETW	7000	7500	7500	7000	7500	7500	7500	7000
Loaded Weight LVW	6849	7279	7407	7245	7373	7492	7620	6992
ALVW-ETW	8500	9000	9000	9000	9000	9000	9000	8500
Adj. Loaded Weight	8575	8790	9054	8773	8937	8896	9210	8646
GVWR	10600	10600	11000	10600	10800	10600	11100	10600
Min Axle Ratio	3.31	3.31	3.31	3.31	3.31	3.31	3.31	3.31
Max Axle Ratio	3.55	3.31	3.55	3.31	3.55	3.31	3.55	3.55
Min N/V Ratio	23.1	23.1	23.1	23.1	23.1	23.1	23.1	23.1
Max N/V Ratio	24.8	23.1	24.8	23.1	24.8	23.1	24.8	24.8
Emission Vehicle Class	HDV2	HDV2	HDV2	HDV2	HDV2	HDV2	HDV2	HDV2
Drive Code	2-Wheel Drive, Rear	2-Wheel Drive, Rear	2-Wheel Drive, Rear	2-Wheel Drive, Rear	2-Wheel Drive, Rear	2-Wheel Drive, Rear	2-Wheel Drive, Rear	2-Wheel Drive, Rear
Trans Type	Semi-Automatic	Semi-Automatic	Semi-Automatic	Semi-Automatic	Semi-Automatic	Semi-Automatic	Semi-Automatic	Semi-Automatic
Calibration Application	50ST	50ST	50ST	50ST	50ST	50ST	50ST	50ST
Min Tire Size	LT245/75R17 - 24.8	LT245/75R17 - 23.1	LT245/75R17 - 23.1	LT245/75R17 - 23.1	LT245/75R17 - 23.1	LT245/75R17 - 23.1	LT245/75R17 - 24.8	LT245/75R17 - 24.8
Max Tire Size	LT245/75R17 - 24.8	LT245/75R17 - 23.1	LT245/75R17 - 23.1	LT245/75R17 - 23.1	LT245/75R17 - 23.1	LT245/75R17 - 23.1	LT245/75R17 - 24.8	LT245/75R17 - 24.8
Alt Tire 1	LT245/75R17 - 23.1		LT245/75R17 - 24.8		LT245/75R17 - 24.8		LT245/75R17 - 23.1	LT245/75R17 - 23.1
Alt Tire 2								
Alt Tire 3								
Alt Tire 4								
Alt Tire 5								
Alt Tire 6								
Alt Tire 7								
DAW Full Tank	2558	2770	2898	2771	2899	2885	3013	2686
DAW Empty Tank	2420	2598	2726	2601	2729	2660	2788	2548

Vehicle Description Report

Application: 50ST

Test Group: SFMXD06.771D

ID Number	5250328	5250365	5250311	5250048	5250052	5250062	5250050	5250115
Displacement	6.7	6.7	6.7	6.7	6.7	6.7	6.7	6.7
Cert Code	STFHY3ND0100	STFHY3ND0100	STFHY3ND0100	STFHTRN20100	STFHTRN20100	STFHTRN20100	STFHTRN20100	STFHTRN20100
Fuel Tank(s)	TU	TU	TZ	TV	TV	TU	TU	TU
Carline	F250 PICKUP 2WD DIESEL	F250 PICKUP 2WD DIESEL	F250 PICKUP 2WD DIESEL	F250 PICKUP 4WD DIESEL	F250 PICKUP 4WD DIESEL	F250 PICKUP 4WD DIESEL	F250 PICKUP 4WD DIESEL	F250 PICKUP 4WD DIESEL
Wheel Configuration	SINGLE REAR WHEELS	SINGLE REAR WHEELS	SINGLE REAR WHEELS	SINGLE REAR WHEELS	SINGLE REAR WHEELS	SINGLE REAR WHEELS	SINGLE REAR WHEELS	SINGLE REAR WHEELS
Body Style	Super Cab	Super Crew	Super Crew	Regular Cab	Regular Cab	Super Cab	Super Cab	Super Crew
Wheelbase	164.0	160.0	175.5	142.0	142.0	164.0	164.0	160.0
Transcode Combo	ESC	ESC	ESC	ESC	ESC	ESC	ESC	ESC
Curb Weight	7122	7088	7335	7025	7153	7507	7635	7459
ETW	7500	7500	7500	7500	7500	8000	8000	8000
Loaded Weight LVW	7422	7388	7635	7325	7453	7807	7935	7759
ALVW-ETW	9000	9000	9000	9000	9000	9000	9500	9000
Adj. Loaded Weight	9061	8944	9218	8813	9077	9053	9417	9029
GVWR	11000	10800	11100	10600	11000	10600	11200	10600
Min Axle Ratio	3.31	3.31	3.31	3.31	3.31	3.31	3.31	3.31
Max Axle Ratio	3.55	3.55	3.55	3.31	3.55	3.31	3.55	3.31
Min N/V Ratio	23.1	23.1	23.1	21.9	21.9	21.3	21.3	21.3
Max N/V Ratio	24.8	24.8	24.8	23.1	24.8	23.1	24.8	23.1
Emission Vehicle Class	HDV2	HDV2	HDV2	HDV2	HDV2	HDV2	HDV2	HDV2
Drive Code	2-Wheel Drive, Rear	2-Wheel Drive, Rear	2-Wheel Drive, Rear	Part-time 4-Wheel Drive	Part-time 4-Wheel Drive	Part-time 4-Wheel Drive	Part-time 4-Wheel Drive	Part-time 4-Wheel Drive
Trans Type	Semi-Automatic	Semi-Automatic	Semi-Automatic	Semi-Automatic	Semi-Automatic	Semi-Automatic	Semi-Automatic	Semi-Automatic
Calibration Application	50ST	50ST	50ST	50ST	50ST	50ST	50ST	50ST
Min Tire Size	LT245/75R17 - 24.8	LT245/75R17 - 23.1	LT245/75R17 - 24.8	LT245/75R17 - 23.1	LT245/75R17 - 23.1	LT245/75R17 - 23.1	LT245/75R17 - 23.1	LT245/75R17 - 23.1
Max Tire Size	LT245/75R17 - 24.8	LT245/75R17 - 23.1	LT245/75R17 - 24.8	LT275/70R18 - 21.9	LT275/70R18 - 23.5	LT275/65R20 - 21.3	LT275/65R20 - 22.9	LT275/65R20 - 21.3
Alt Tire 1	LT245/75R17 - 23.1	LT245/75R17 - 24.8	LT245/75R17 - 23.1	LT275/65R18 - 22.7	LT285/70R17 - 23.8	LT275/70R18 - 21.9	LT285/70R17 - 23.8	LT275/65R18 - 22.7
Alt Tire 2				LT285/70R17 - 22.2	LT275/70R18 - 21.9	LT285/70R17 - 22.2	LT245/75R17 - 24.8	LT275/70R18 - 21.9
Alt Tire 3					LT245/75R17 - 24.8	LT275/65R18 - 22.7	LT275/65R20 - 21.3	LT285/70R17 - 22.2
Alt Tire 4					LT275/65R18 - 22.7		LT275/70R18 - 23.5	
Alt Tire 5					LT275/65R18 - 24.3		LT275/65R18 - 24.3	
Alt Tire 6					LT285/70R17 - 22.2		LT275/65R18 - 22.7	
Alt Tire 7							LT285/70R17 - 22.2	
DAW Full Tank	2898	2899	3013	2677	2805	2901	3029	2911
DAW Empty Tank	2726	2729	2788	2539	2667	2729	2857	2740

Vehicle Description Report

Application: 50ST

Test Group: SFMXD06.771D

ID Number	5250051	5250070	5250049	5250314	5250315	5250484	5250312	5250323
Displacement	6.7	6.7	6.7	6.7	6.7	6.7	6.7	6.7
Cert Code	STFHTRN20100	STFHTRN20100	STFHTRN20100	STFHY3ND0100	STFHY3ND0100	STFHY3ND0100	STFHY3ND0100	STFHY3ND0100
Fuel Tank(s)	TU	TZ	TZ	TV	TU	TU	TU	TZ
Carline	F250 PICKUP 4WD DIESEL	F250 PICKUP 4WD DIESEL	F250 PICKUP 4WD DIESEL	F250 PICKUP 4WD DIESEL	F250 PICKUP 4WD DIESEL	F250 PICKUP 4WD DIESEL	F250 PICKUP 4WD DIESEL	F250 PICKUP 4WD DIESEL
Wheel Configuration	SINGLE REAR WHEELS	SINGLE REAR WHEELS	SINGLE REAR WHEELS	SINGLE REAR WHEELS	SINGLE REAR WHEELS	SINGLE REAR WHEELS	SINGLE REAR WHEELS	SINGLE REAR WHEELS
Body Style	Super Crew	Super Crew	Super Crew	Regular Cab	Super Cab	Super Crew	Super Crew	Super Crew
Wheelbase	160.0	175.5	175.5	142.0	164.0	160.0	160.0	175.5
Transcode Combo	ESC	ESC	ESC	ESC	ESC	ESC	ESC	ESC
Curb Weight	7587	7783	7911	7168	7650	7503	7602	7926
ETW	8000	8000	8000	7500	8000	8000	8000	8000
Loaded Weight LVW	7887	8083	8211	7468	7950	7803	7902	8226
ALVW-ETW	9500	9000	9500	9000	9500	9500	9500	9500
Adj. Loaded Weight	9343	9191	9555	9084	9525	9252	9351	9663
GVWR	11100	10600	11200	11000	11400	11000	11100	11400
Min Axle Ratio	3.31	3.31	3.31	3.31	3.31	3.55	3.31	3.31
Max Axle Ratio	3.55	3.31	3.55	3.55	3.55	3.55	3.55	3.55
Min N/V Ratio	21.3	21.3	21.3	21.9	21.3	22.4	21.3	21.3
Max N/V Ratio	24.8	23.1	24.8	24.8	24.8	22.4	24.8	24.8
Emission Vehicle Class	HDV2	HDV2	HDV2	HDV2	HDV2	HDV2	HDV2	HDV2
Drive Code	Part-time 4-Wheel Drive	Part-time 4-Wheel Drive	Part-time 4-Wheel Drive	Part-time 4-Wheel Drive	Part-time 4-Wheel Drive	Part-time 4-Wheel Drive	Part-time 4-Wheel Drive	Part-time 4-Wheel Drive
Trans Type	Semi-Automatic	Semi-Automatic	Semi-Automatic	Semi-Automatic	Semi-Automatic	Semi-Automatic	Semi-Automatic	Semi-Automatic
Calibration Application	50ST	50ST	50ST	50ST	50ST	50ST	50ST	50ST
Min Tire Size	LT245/75R17 - 23.1	LT245/75R17 - 23.1	LT245/75R17 - 24.8	LT245/75R17 - 23.1	LT245/75R17 - 23.1	LT285/75R18 - 22.4	LT245/75R17 - 23.1	LT245/75R17 - 23.1
Max Tire Size	LT275/65R20 - 21.3	LT275/65R20 - 21.3	LT275/65R20 - 22.9	LT275/70R18 - 21.9	LT275/65R20 - 22.9	LT285/75R18 - 22.4	LT275/65R20 - 22.9	LT275/65R20 - 22.9
Alt Tire 1	LT275/65R18 - 24.3	LT275/70R18 - 21.9	LT285/70R17 - 22.2	LT285/70R17 - 22.2	LT285/70R17 - 23.8		LT285/70R17 - 23.8	LT285/70R17 - 23.8
Alt Tire 2	LT285/70R17 - 22.2	LT285/70R17 - 22.2	LT275/65R18 - 22.7	LT275/65R18 - 22.7	LT245/75R17 - 24.8		LT275/70R18 - 23.5	LT245/75R17 - 24.8
Alt Tire 3	LT275/70R18 - 21.9	LT275/65R18 - 22.7	LT275/65R18 - 24.3	LT275/65R18 - 24.3	LT275/65R20 - 21.3		LT275/65R20 - 21.3	LT275/65R20 - 21.3
Alt Tire 4	LT275/70R18 - 23.5		LT275/65R20 - 21.3	LT275/70R18 - 23.5	LT275/70R18 - 23.5		LT245/75R17 - 24.8	LT275/70R18 - 21.9
Alt Tire 5	LT245/75R17 - 24.8		LT275/70R18 - 23.5	LT245/75R17 - 24.8	LT285/70R17 - 22.2		LT275/70R18 - 21.9	LT275/65R18 - 24.3
Alt Tire 6	LT285/70R17 - 23.8		LT275/70R18 - 21.9	LT285/70R17 - 23.8	LT275/65R18 - 24.3		LT275/65R18 - 22.7	LT275/65R18 - 22.7
Alt Tire 7	LT275/65R20 - 22.9		LT245/75R17 - 23.1		LT275/65R18 - 22.7		LT275/65R18 - 24.3	LT275/70R18 - 23.5
DAW Full Tank	3039	3016	3144	2805	3029	2980	3039	3144
DAW Empty Tank	2868	2792	2920	2667	2857	2810	2868	2920

Vehicle Description Report

Application: 50ST

Test Group: SFMXD06.771D

ID Number	5250193	5250278	5250190	5250220	5250213	5250197	5250188	5250218
Displacement	6.7	6.7	6.7	6.7	6.7	6.7	6.7	6.7
Cert Code	STFHTRN30100	STFHTRN30100	STFHTRN30100	STFHTRN30100	STFHTRN30100	STFHTRN30100	STFHTRN30100	STFHTRN30100
Fuel Tank(s)	TV	TV	TU	TU	TU	TU	TZ	TZ
Carline	F350 PICKUP 2WD DIESEL	F350 PICKUP 2WD DIESEL	F350 PICKUP 2WD DIESEL	F350 PICKUP 2WD DIESEL	F350 PICKUP 2WD DIESEL	F350 PICKUP 2WD DIESEL	F350 PICKUP 2WD DIESEL	F350 PICKUP 2WD DIESEL
Wheel Configuration	SINGLE REAR WHEELS	SINGLE REAR WHEELS	SINGLE REAR WHEELS	SINGLE REAR WHEELS	SINGLE REAR WHEELS	SINGLE REAR WHEELS	SINGLE REAR WHEELS	SINGLE REAR WHEELS
Body Style	Regular Cab	Regular Cab	Super Cab	Super Cab	Super Crew	Super Crew	Super Crew	Super Crew
Wheelbase	142.0	142.0	164.0	164.0	160.0	160.0	175.5	175.5
Transcode Combo	ESC	ESC	ESC	ESC	ESC	ESC	ESC	ESC
Curb Weight	6623	6681	7077	7135	7061	7119	7298	7356
ETW	7000	7000	7500	7500	7500	7500	7500	7500
Loaded Weight LVW	6923	6981	7377	7435	7361	7419	7598	7656
ALVW-ETW	8500	9000	9000	9500	9000	9000	9000	9500
Adj. Loaded Weight	8611	8890	9038	9317	8930	9209	9199	9427
GVWR	10600	11100	11000	11499	10800	11300	11100	11499
Min Axle Ratio	3.31	3.31	3.31	3.31	3.31	3.31	3.31	3.31
Max Axle Ratio	3.55	3.55	3.55	3.55	3.55	3.55	3.55	3.55
Min N/V Ratio	23.1	22.7	23.1	22.7	23.1	22.7	23.1	22.7
Max N/V Ratio	24.8	24.3	24.8	24.3	24.8	24.3	24.8	24.3
Emission Vehicle Class	HDV2	HDV2	HDV2	HDV2	HDV2	HDV2	HDV2	HDV2
Drive Code	2-Wheel Drive, Rear	2-Wheel Drive, Rear	2-Wheel Drive, Rear	2-Wheel Drive, Rear	2-Wheel Drive, Rear	2-Wheel Drive, Rear	2-Wheel Drive, Rear	2-Wheel Drive, Rear
Trans Type	Semi-Automatic	Semi-Automatic	Semi-Automatic	Semi-Automatic	Semi-Automatic	Semi-Automatic	Semi-Automatic	Semi-Automatic
Calibration Application	50ST	50ST	50ST	50ST	50ST	50ST	50ST	50ST
Min Tire Size	LT245/75R17 - 24.8	LT275/65R18 - 22.7	LT245/75R17 - 24.8	LT275/65R18 - 22.7	LT245/75R17 - 23.1	LT275/65R18 - 22.7	LT245/75R17 - 23.1	LT275/65R18 - 22.7
Max Tire Size	LT245/75R17 - 24.8	LT275/65R18 - 22.7	LT245/75R17 - 24.8	LT275/65R18 - 22.7	LT245/75R17 - 23.1	LT275/65R18 - 22.7	LT245/75R17 - 23.1	LT275/65R18 - 22.7
Alt Tire 1	LT245/75R17 - 23.1	LT275/65R18 - 24.3	LT245/75R17 - 23.1	LT275/65R18 - 24.3	LT245/75R17 - 24.8	LT275/65R18 - 24.3	LT245/75R17 - 24.8	LT275/65R18 - 24.3
Alt Tire 2								
Alt Tire 3								
Alt Tire 4								
Alt Tire 5								
Alt Tire 6								
Alt Tire 7								
DAW Full Tank	2701	2738	2903	2940	2921	2958	2994	3031
DAW Empty Tank	2563	2600	2730	2767	2750	2787	2770	2807

Vehicle Description Report

Application: 50ST

Test Group: SFMXD06.771D

ID Number	5250295	5250290	5250299	5250300	5250384	5250441	5250397	5250410
Displacement	6.7	6.7	6.7	6.7	6.7	6.7	6.7	6.7
Cert Code	STFHTRN40100	STFHTRN40100	STFHTRN50100	STFHTRN50100	STFHY3ND0100	STFHY3ND0100	STFHY3ND0100	STFHY3ND0100
Fuel Tank(s)	TV	TZ	TV	TZ	TV	TV	TU	TU
Carline	F350 PICKUP 2WD DIESEL	F350 PICKUP 2WD DIESEL	F350 PICKUP 2WD DIESEL	F350 PICKUP 2WD DIESEL	F350 PICKUP 2WD DIESEL	F350 PICKUP 2WD DIESEL	F350 PICKUP 2WD DIESEL	F350 PICKUP 2WD DIESEL
Wheel Configuration	DUAL REAR WHEELS	DUAL REAR WHEELS	DUAL REAR WHEELS	DUAL REAR WHEELS	SINGLE REAR WHEELS	SINGLE REAR WHEELS	SINGLE REAR WHEELS	SINGLE REAR WHEELS
Body Style	Regular Cab	Super Crew	Regular Cab	Super Crew	Regular Cab	Regular Cab	Super Cab	Super Cab
Wheelbase	142.0	175.5	142.0	175.5	142.0	142.0	164.0	164.0
Transcode Combo	ESC	ESC	ESC	ESC	ESC	ESC	ESC	ESC
Curb Weight	7186	7857	7186	7857	6638	6696	7092	7150
ETW	7500	8000	7500	8000	7000	7000	7500	7500
Loaded Weight LVW	7486	8157	7486	8157	6938	6996	7392	7450
ALVW-ETW	10500	11000	10500	11000	8500	9000	9000	9500
Adj. Loaded Weight	10593	10928	10593	10928	8619	8898	9046	9324
GVWR	14000	14000	14000	14000	10600	11100	11000	11499
Min Axle Ratio	3.55	3.55	4.1	4.1	3.31	3.31	3.55	3.55
Max Axle Ratio	3.55	3.55	4.1	4.1	3.55	3.55	3.55	3.55
Min N/V Ratio	24.8	24.8	28.6	28.6	23.1	22.7	24.8	24.3
Max N/V Ratio	24.8	24.8	28.6	28.6	24.8	24.3	24.8	24.3
Emission Vehicle Class	HDV2	HDV2	HDV2	HDV2	HDV2	HDV2	HDV2	HDV2
Drive Code	2-Wheel Drive, Rear	2-Wheel Drive, Rear	2-Wheel Drive, Rear	2-Wheel Drive, Rear	2-Wheel Drive, Rear	2-Wheel Drive, Rear	2-Wheel Drive, Rear	2-Wheel Drive, Rear
Trans Type	Semi-Automatic	Semi-Automatic	Semi-Automatic	Semi-Automatic	Semi-Automatic	Semi-Automatic	Semi-Automatic	Semi-Automatic
Calibration Application	50ST	50ST	50ST	50ST	50ST	50ST	50ST	50ST
Min Tire Size	LT245/75R17 - 24.8	LT245/75R17 - 24.8	LT245/75R17 - 28.6	LT245/75R17 - 28.6	LT245/75R17 - 24.8	LT275/65R18 - 24.3	LT245/75R17 - 24.8	LT275/65R18 - 24.3
Max Tire Size	LT245/75R17 - 24.8	LT245/75R17 - 24.8	LT245/75R17 - 28.6	LT245/75R17 - 28.6	LT245/75R17 - 24.8	LT275/65R18 - 24.3	LT245/75R17 - 24.8	LT275/65R18 - 24.3
Alt Tire 1					LT245/75R17 - 23.1	LT275/65R18 - 22.7		
Alt Tire 2								
Alt Tire 3								
Alt Tire 4								
Alt Tire 5								
Alt Tire 6								
Alt Tire 7								
DAW Full Tank	3051	3437	3051	3437	2700	2737	2898	2935
DAW Empty Tank	2914	3213	2914	3213	2563	2600	2725	2762

Vehicle Description Report

Application: 50ST

Test Group: SFMXD06.771D

ID Number	5250316	5250326	5250499	5250502	5250508	5250507	5250200	5250245
Displacement	6.7	6.7	6.7	6.7	6.7	6.7	6.7	6.7
Cert Code	STFHY3ND0100	STFHY3ND0100	STFHY3NS0100	STFHY3NS0100	STFHY3NT0100	STFHY3NT0100	STFHTRN30100	STFHTRN30100
Fuel Tank(s)	TZ	TZ	TV	TZ	TV	TZ	TV	TV
Carline	F350 PICKUP 2WD DIESEL	F350 PICKUP 2WD DIESEL	F350 PICKUP 2WD DIESEL	F350 PICKUP 2WD DIESEL	F350 PICKUP 2WD DIESEL	F350 PICKUP 2WD DIESEL	F350 PICKUP 4WD DIESEL	F350 PICKUP 4WD DIESEL
Wheel Configuration	SINGLE REAR WHEELS	SINGLE REAR WHEELS	DUAL REAR WHEELS	DUAL REAR WHEELS	DUAL REAR WHEELS	DUAL REAR WHEELS	SINGLE REAR WHEELS	SINGLE REAR WHEELS
Body Style	Super Crew	Super Crew	Regular Cab	Super Crew	Regular Cab	Super Crew	Regular Cab	Regular Cab
Wheelbase	175.5	175.5	142.0	175.5	142.0	175.5	142.0	142.0
Transcode Combo	ESC	ESC	ESC	ESC	ESC	ESC	ESC	ESC
Curb Weight	7283	7341	7202	7871	7202	7871	7234	7292
ETW	7500	7500	7500	8000	7500	8000	7500	7500
Loaded Weight LVW	7583	7641	7502	8171	7502	8171	7534	7592
ALVW-ETW	9000	9500	10500	11000	10500	11000	9000	9500
Adj. Loaded Weight	9191	9420	10601	10935	10601	10935	9117	9396
GVWR	11100	11499	14000	14000	14000	14000	11000	11499
Min Axle Ratio	3.31	3.31	3.55	3.55	4.1	4.1	3.31	3.31
Max Axle Ratio	3.55	3.55	3.55	3.55	4.1	4.1	3.55	3.55
Min N/V Ratio	23.1	22.7	24.8	24.8	28.6	28.6	22.2	22.7
Max N/V Ratio	24.8	24.3	24.8	24.8	28.6	28.6	24.8	24.3
Emission Vehicle Class	HDV2	HDV2	HDV2	HDV2	HDV2	HDV2	HDV2	HDV2
Drive Code	2-Wheel Drive, Rear	2-Wheel Drive, Rear	2-Wheel Drive, Rear	2-Wheel Drive, Rear	2-Wheel Drive, Rear	2-Wheel Drive, Rear	Part-time 4-Wheel Drive	Part-time 4-Wheel Drive
Trans Type	Semi-Automatic	Semi-Automatic	Semi-Automatic	Semi-Automatic	Semi-Automatic	Semi-Automatic	Semi-Automatic	Semi-Automatic
Calibration Application	50ST	50ST	50ST	50ST	50ST	50ST	50ST	50ST
Min Tire Size	LT245/75R17 - 23.1	LT275/65R18 - 22.7	LT245/75R17 - 24.8	LT245/75R17 - 24.8	LT245/75R17 - 28.6	LT245/75R17 - 28.6	LT245/75R17 - 23.1	LT275/65R18 - 22.7
Max Tire Size	LT245/75R17 - 23.1	LT275/65R18 - 22.7	LT245/75R17 - 24.8	LT245/75R17 - 24.8	LT245/75R17 - 28.6	LT245/75R17 - 28.6	LT285/70R17 - 22.2	LT275/65R18 - 22.7
Alt Tire 1	LT245/75R17 - 24.8	LT275/65R18 - 24.3					LT285/70R17 - 23.8	LT275/65R18 - 24.3
Alt Tire 2							LT245/75R17 - 24.8	
Alt Tire 3								
Alt Tire 4								
Alt Tire 5								
Alt Tire 6								
Alt Tire 7								
DAW Full Tank	2984	3021	3052	3427	3052	3427	2849	2886
DAW Empty Tank	2760	2797	2914	3203	2914	3203	2711	2748

Vehicle Description Report

Application: 50ST

Test Group: SFMXD06.771D

ID Number	5250266	5250191	5250215	5250189	5250195	5250194	5250192	5250196
Displacement	6.7	6.7	6.7	6.7	6.7	6.7	6.7	6.7
Cert Code	STFHTRN30100	STFHTRN30100	STFHTRN30100	STFHTRN30100	STFHTRN30100	STFHTRN30100	STFHTRN30100	STFHTRN30100
Fuel Tank(s)	TV	TU	TU	TU	TU	TU	TU	TZ
Carline	F350 PICKUP 4WD DIESEL	F350 PICKUP 4WD DIESEL	F350 PICKUP 4WD DIESEL	F350 PICKUP 4WD DIESEL	F350 PICKUP 4WD DIESEL	F350 PICKUP 4WD DIESEL	F350 PICKUP 4WD DIESEL	F350 PICKUP 4WD DIESEL
Wheel Configuration	SINGLE REAR WHEELS	SINGLE REAR WHEELS	SINGLE REAR WHEELS	SINGLE REAR WHEELS	SINGLE REAR WHEELS	SINGLE REAR WHEELS	SINGLE REAR WHEELS	SINGLE REAR WHEELS
Body Style	Regular Cab	Super Cab	Super Cab	Super Cab	Super Crew	Super Crew	Super Crew	Super Crew
Wheelbase	142.0	164.0	164.0	164.0	160.0	160.0	160.0	175.5
Transcode Combo	ESC	ESC	ESC	ESC	ESC	ESC	ESC	ESC
Curb Weight	7297	7741	7799	7804	7774	7832	7837	8021
ETW	7500	8000	8000	8000	8000	8000	8000	8500
Loaded Weight LVW	7597	8041	8099	8104	8074	8132	8137	8321
ALVW-ETW	9500	9500	9500	10000	9500	9500	10000	10000
Adj. Loaded Weight	9649	9520	9649	10052	9487	9665	9918	9760
GVWR	12000	11300	11499	12300	11200	11499	12000	11499
Min Axle Ratio	3.31	3.31	3.31	3.31	3.31	3.31	3.31	3.31
Max Axle Ratio	3.55	3.55	3.55	3.55	3.55	3.55	3.55	3.55
Min N/V Ratio	21.9	22.2	22.7	21.3	22.2	22.7	21.3	22.2
Max N/V Ratio	23.5	24.8	24.3	23.5	24.8	24.3	23.5	24.8
Emission Vehicle Class	HDV2	HDV2	HDV2	HDV2	HDV2	HDV2	HDV2	HDV2
Drive Code	Part-time 4-Wheel Drive	Part-time 4-Wheel Drive	Part-time 4-Wheel Drive	Part-time 4-Wheel Drive	Part-time 4-Wheel Drive	Part-time 4-Wheel Drive	Part-time 4-Wheel Drive	Part-time 4-Wheel Drive
Trans Type	Semi-Automatic	Semi-Automatic	Semi-Automatic	Semi-Automatic	Semi-Automatic	Semi-Automatic	Semi-Automatic	Semi-Automatic
Calibration Application	50ST	50ST	50ST	50ST	50ST	50ST	50ST	50ST
Min Tire Size	LT275/70R18 - 23.5	LT245/75R17 - 24.8	LT275/65R18 - 22.7	LT275/70R18 - 21.9	LT245/75R17 - 23.1	LT275/65R18 - 22.7	LT275/70R18 - 21.9	LT245/75R17 - 23.1
Max Tire Size	LT275/70R18 - 23.5	LT285/70R17 - 23.8	LT275/65R18 - 22.7	LT275/65R20 - 22.9	LT285/70R17 - 22.2	LT275/65R18 - 22.7	LT275/65R20 - 22.9	LT285/70R17 - 22.2
Alt Tire 1	LT275/70R18 - 21.9	LT285/70R17 - 22.2	LT275/65R18 - 24.3	LT275/65R20 - 21.3	LT285/70R17 - 23.8	LT275/65R18 - 24.3	LT275/65R20 - 21.3	LT285/70R17 - 23.8
Alt Tire 2		LT245/75R17 - 23.1		LT275/70R18 - 23.5	LT245/75R17 - 24.8		LT275/70R18 - 23.5	LT245/75R17 - 24.8
Alt Tire 3								
Alt Tire 4								
Alt Tire 5								
Alt Tire 6								
Alt Tire 7								
DAW Full Tank	2888	3146	3183	3185	3166	3203	3205	3267
DAW Empty Tank	2750	2973	3010	3012	2995	3032	3034	3043

Vehicle Description Report

Application: 50ST

Test Group: SFMXD06.771D

ID Number	5250202	5250211	5250291	5250294	5250298	5250301	5250310	5250313
Displacement	6.7	6.7	6.7	6.7	6.7	6.7	6.7	6.7
Cert Code	STFHTRN30100	STFHTRN30100	STFHTRN40100	STFHTRN40100	STFHTRN50100	STFHTRN50100	STFHY3ND0100	STFHY3ND0100
Fuel Tank(s)	TZ	TZ	TV	TZ	TV	TZ	TV	TV
Carline	F350 PICKUP 4WD DIESEL	F350 PICKUP 4WD DIESEL	F350 PICKUP 4WD DIESEL	F350 PICKUP 4WD DIESEL	F350 PICKUP 4WD DIESEL	F350 PICKUP 4WD DIESEL	F350 PICKUP 4WD DIESEL	F350 PICKUP 4WD DIESEL
Wheel Configuration	SINGLE REAR WHEELS	SINGLE REAR WHEELS	DUAL REAR WHEELS	DUAL REAR WHEELS	DUAL REAR WHEELS	DUAL REAR WHEELS	SINGLE REAR WHEELS	SINGLE REAR WHEELS
Body Style	Super Crew	Super Crew	Regular Cab	Super Crew	Regular Cab	Super Crew	Regular Cab	Regular Cab
Wheelbase	175.5	175.5	142.0	175.5	142.0	175.5	142.0	142.0
Transcode Combo	ESC	ESC	ESC	ESC	ESC	ESC	ESC	ESC
Curb Weight	8079	8084	7613	8302	7613	8302	7249	7307
ETW	8500	8500	8000	8500	8000	8500	7500	7500
Loaded Weight LVW	8379	8384	7913	8602	7913	8602	7549	7607
ALVW-ETW	10000	10000	11000	11000	11000	11000	9000	9500
Adj. Loaded Weight	10039	10242	10806	11151	10806	11151	9125	9403
GVWR	12000	12400	14000	14000	14000	14000	11000	11499
Min Axle Ratio	3.31	3.31	3.55	3.55	4.1	4.1	3.31	3.31
Max Axle Ratio	3.55	3.55	3.55	3.55	4.1	4.1	3.55	3.55
Min N/V Ratio	22.7	21.3	24.8	24.8	28.6	28.6	22.2	22.7
Max N/V Ratio	24.3	23.5	24.8	24.8	28.6	28.6	24.8	24.3
Emission Vehicle Class	HDV2	HDV2	HDV2	HDV2	HDV2	HDV2	HDV2	HDV2
Drive Code	Part-time 4-Wheel Drive	Part-time 4-Wheel Drive	Part-time 4-Wheel Drive	Part-time 4-Wheel Drive	Part-time 4-Wheel Drive	Part-time 4-Wheel Drive	Part-time 4-Wheel Drive	Part-time 4-Wheel Drive
Trans Type	Semi-Automatic	Semi-Automatic	Semi-Automatic	Semi-Automatic	Semi-Automatic	Semi-Automatic	Semi-Automatic	Semi-Automatic
Calibration Application	50ST	50ST	50ST	50ST	50ST	50ST	50ST	50ST
Min Tire Size	LT275/65R18 - 24.3	LT275/70R18 - 23.5	LT245/75R17 - 24.8	LT245/75R17 - 24.8	LT245/75R17 - 28.6	LT245/75R17 - 28.6	LT245/75R17 - 24.8	LT275/65R18 - 24.3
Max Tire Size	LT275/65R18 - 24.3	LT275/65R20 - 22.9	LT245/75R17 - 24.8	LT245/75R17 - 24.8	LT245/75R17 - 28.6	LT245/75R17 - 28.6	LT285/70R17 - 22.2	LT275/65R18 - 24.3
Alt Tire 1	LT275/65R18 - 22.7	LT275/65R20 - 21.3					LT245/75R17 - 23.1	LT275/65R18 - 22.7
Alt Tire 2		LT275/70R18 - 21.9					LT285/70R17 - 23.8	
Alt Tire 3								
Alt Tire 4								
Alt Tire 5								
Alt Tire 6								
Alt Tire 7								
DAW Full Tank	3304	3306	3229	3556	3229	3556	2848	2885
DAW Empty Tank	3080	3082	3091	3332	3091	3332	2711	2748

Vehicle Description Report

Application: 50ST

Test Group: SFMXD06.771D

ID Number	5250374	5250352	5250331	5250333	5250317	5250345	5250375	5250324
Displacement	6.7	6.7	6.7	6.7	6.7	6.7	6.7	6.7
Cert Code	STFHY3ND0100	STFHY3ND0100	STFHY3ND0100	STFHY3ND0100	STFHY3ND0100	STFHY3ND0100	STFHY3ND0100	STFHY3ND0100
Fuel Tank(s)	TV	TU	TU	TU	TU	TU	TU	TZ
Carline	F350 PICKUP 4WD DIESEL	F350 PICKUP 4WD DIESEL	F350 PICKUP 4WD DIESEL	F350 PICKUP 4WD DIESEL	F350 PICKUP 4WD DIESEL	F350 PICKUP 4WD DIESEL	F350 PICKUP 4WD DIESEL	F350 PICKUP 4WD DIESEL
Wheel Configuration	SINGLE REAR WHEELS	SINGLE REAR WHEELS	SINGLE REAR WHEELS	SINGLE REAR WHEELS	SINGLE REAR WHEELS	SINGLE REAR WHEELS	SINGLE REAR WHEELS	SINGLE REAR WHEELS
Body Style	Regular Cab	Super Cab	Super Cab	Super Cab	Super Crew	Super Crew	Super Crew	Super Crew
Wheelbase	142.0	164.0	164.0	164.0	160.0	160.0	160.0	175.5
Transcode Combo	ESC	ESC	ESC	ESC	ESC	ESC	ESC	ESC
Curb Weight	7312	7772	7830	7835	7789	7847	7852	8036
ETW	7500	8000	8000	8000	8000	8000	8000	8500
Loaded Weight LVW	7612	8072	8130	8135	8089	8147	8152	8336
ALVW-ETW	9500	9500	9500	10000	9500	9500	10000	10000
Adj. Loaded Weight	9656	9536	9664	10067	9494	9673	9926	9767
GVWR	12000	11300	11499	12300	11200	11499	12000	11499
Min Axle Ratio	3.31	3.31	3.31	3.31	3.31	3.31	3.31	3.31
Max Axle Ratio	3.55	3.55	3.55	3.55	3.55	3.55	3.55	3.55
Min N/V Ratio	21.9	22.2	22.7	21.3	22.2	22.7	21.3	22.2
Max N/V Ratio	23.5	24.8	24.3	23.5	24.8	24.3	23.5	24.8
Emission Vehicle Class	HDV2	HDV2	HDV2	HDV2	HDV2	HDV2	HDV2	HDV2
Drive Code	Part-time 4-Wheel Drive	Part-time 4-Wheel Drive	Part-time 4-Wheel Drive	Part-time 4-Wheel Drive	Part-time 4-Wheel Drive	Part-time 4-Wheel Drive	Part-time 4-Wheel Drive	Part-time 4-Wheel Drive
Trans Type	Semi-Automatic	Semi-Automatic	Semi-Automatic	Semi-Automatic	Semi-Automatic	Semi-Automatic	Semi-Automatic	Semi-Automatic
Calibration Application	50ST	50ST	50ST	50ST	50ST	50ST	50ST	50ST
Min Tire Size	LT275/70R18 - 23.5	LT245/75R17 - 24.8	LT275/65R18 - 24.3	LT275/70R18 - 21.9	LT245/75R17 - 23.1	LT275/65R18 - 22.7	LT275/70R18 - 21.9	LT245/75R17 - 24.8
Max Tire Size	LT275/70R18 - 23.5	LT285/70R17 - 22.2	LT275/65R18 - 24.3	LT275/65R20 - 22.9	LT285/70R17 - 22.2	LT275/65R18 - 22.7	LT285/75R18 - 22.4	LT285/70R17 - 22.2
Alt Tire 1	LT275/70R18 - 21.9	LT285/70R17 - 23.8	LT275/65R18 - 22.7	LT275/70R18 - 23.5	LT285/70R17 - 23.8	LT275/65R18 - 24.3	LT275/65R20 - 21.3	LT285/70R17 - 23.8
Alt Tire 2		LT245/75R17 - 23.1		LT275/65R20 - 21.3	LT245/75R17 - 24.8		LT275/70R18 - 23.5	LT245/75R17 - 23.1
Alt Tire 3							LT275/65R20 - 22.9	
Alt Tire 4								
Alt Tire 5								
Alt Tire 6								
Alt Tire 7								
DAW Full Tank	2887	3146	3183	3185	3165	3202	3204	3266
DAW Empty Tank	2750	2974	3011	3013	2994	3031	3033	3042

Vehicle Description Report

Application: 50ST

Test Group: SFMXD06.771D

ID Number	5250443	5250353	5250500	5250501	5250509	5250510	5250307	5250309
Displacement	6.7	6.7	6.7	6.7	6.7	6.7	6.7	6.7
Cert Code	STFHY3ND0100	STFHY3ND0100	STFHY3NS0100	STFHY3NS0100	STFHY3NT0100	STFHY3NT0100	STFHTRN60100	STFHTRN60100
Fuel Tank(s)	TZ	TZ	TV	TZ	TV	TZ	TV	TZ
Carline	F350 PICKUP 4WD DIESEL	F350 PICKUP 4WD DIESEL	F350 PICKUP 4WD DIESEL	F350 PICKUP 4WD DIESEL	F350 PICKUP 4WD DIESEL	F350 PICKUP 4WD DIESEL	F450 PICKUP 2WD DIESEL	F450 PICKUP 2WD DIESEL
Wheel Configuration	SINGLE REAR WHEELS	SINGLE REAR WHEELS	DUAL REAR WHEELS	DUAL REAR WHEELS	DUAL REAR WHEELS	DUAL REAR WHEELS	DUAL REAR WHEELS	DUAL REAR WHEELS
Body Style	Super Crew	Super Crew	Regular Cab	Super Crew	Regular Cab	Super Crew	Regular Cab	Super Crew
Wheelbase	175.5	175.5	142.0	175.5	142.0	175.5	142.0	175.5
Transcode Combo	ESC	ESC	ESC	ESC	ESC	ESC	ESC	ESC
Curb Weight	8094	8099	7628	8317	7628	8317	7730	8399
ETW	8500	8500	8000	8500	8000	8500	8000	8500
Loaded Weight LVW	8394	8399	7928	8617	7928	8617	8030	8699
ALVW-ETW	10000	10000	11000	11000	11000	11000	11000	11000
Adj. Loaded Weight	10047	10249	10814	11159	10814	11159	10865	11200
GVWR	12000	12400	14000	14000	14000	14000	14000	14000
Min Axle Ratio	3.31	3.31	3.55	3.55	4.1	4.1	4.3	4.3
Max Axle Ratio	3.55	3.55	3.55	3.55	4.1	4.1	4.3	4.3
Min N/V Ratio	22.7	21.3	24.8	24.8	28.6	28.6	30.1	30.1
Max N/V Ratio	24.3	23.5	24.8	24.8	28.6	28.6	30.1	30.1
Emission Vehicle Class	HDV2	HDV2	HDV2	HDV2	HDV2	HDV2	HDV2	HDV2
Drive Code	Part-time 4-Wheel Drive	Part-time 4-Wheel Drive	Part-time 4-Wheel Drive	Part-time 4-Wheel Drive	Part-time 4-Wheel Drive	Part-time 4-Wheel Drive	2-Wheel Drive, Rear	2-Wheel Drive, Rear
Trans Type	Semi-Automatic	Semi-Automatic	Semi-Automatic	Semi-Automatic	Semi-Automatic	Semi-Automatic	Semi-Automatic	Semi-Automatic
Calibration Application	50ST	50ST	50ST	50ST	50ST	50ST	50ST	50ST
Min Tire Size	LT275/65R18 - 22.7	LT275/70R18 - 21.9	LT245/75R17 - 24.8	LT245/75R17 - 24.8	LT245/75R17 - 28.6	LT245/75R17 - 28.6	225/70R19 - 30.1	225/70R19 - 30.1
Max Tire Size	LT275/65R18 - 22.7	LT275/65R20 - 22.9	LT245/75R17 - 24.8	LT245/75R17 - 24.8	LT245/75R17 - 28.6	LT245/75R17 - 28.6	225/70R19 - 30.1	225/70R19 - 30.1
Alt Tire 1	LT275/65R18 - 24.3	LT275/70R18 - 23.5						
Alt Tire 2		LT275/65R20 - 21.3						
Alt Tire 3								
Alt Tire 4								
Alt Tire 5								
Alt Tire 6								
Alt Tire 7								
DAW Full Tank	3303	3305	3228	3556	3228	3556	3381	3787
DAW Empty Tank	3079	3081	3090	3332	3090	3332	3244	3562

Vehicle Description Report

Application: 50ST

Test Group: SFMXD06.771D

ID Number	5250515	5250519	5250306	5250308	5250517	5250518
Displacement	6.7	6.7	6.7	6.7	6.7	6.7
Cert Code	STFHY3NX0100	STFHY3NX0100	STFHTRN60100	STFHTRN60100	STFHY3NX0100	STFHY3NX0100
Fuel Tank(s)	TV	TZ	TV	TZ	TV	TZ
Carline	F450 PICKUP 2WD DIESEL	F450 PICKUP 2WD DIESEL	F450 PICKUP 4WD DIESEL	F450 PICKUP 4WD DIESEL	F450 PICKUP 4WD DIESEL	F450 PICKUP 4WD DIESEL
Wheel Configuration	DUAL REAR WHEELS	DUAL REAR WHEELS	DUAL REAR WHEELS	DUAL REAR WHEELS	DUAL REAR WHEELS	DUAL REAR WHEELS
Body Style	Regular Cab	Super Crew	Regular Cab	Super Crew	Regular Cab	Super Crew
Wheelbase	142.0	175.5	142.0	175.5	142.0	175.5
Transcode Combo	ESC	ESC	ESC	ESC	ESC	ESC
Curb Weight	7746	8414	8213	8906	8228	8921
ETW	8000	8500	8500	9000	8500	9000
Loaded Weight LVW	8046	8714	8513	9206	8528	9221
ALVW-ETW	11000	11000	11000	11500	11000	11500
Adj. Loaded Weight	10873	11207	11106	11453	11114	11460
GVWR	14000	14000	14000	14000	14000	14000
Min Axle Ratio	4.3	4.3	4.3	4.3	4.3	4.3
Max Axle Ratio	4.3	4.3	4.3	4.3	4.3	4.3
Min N/V Ratio	30.1	30.1	30.1	30.1	30.1	30.1
Max N/V Ratio	30.1	30.1	30.1	30.1	30.1	30.1
Emission Vehicle Class	HDV2	HDV2	HDV2	HDV2	HDV2	HDV2
Drive Code	2-Wheel Drive, Rear	2-Wheel Drive, Rear	Part-time 4-Wheel Drive	Part-time 4-Wheel Drive	Part-time 4-Wheel Drive	Part-time 4-Wheel Drive
Trans Type	Semi-Automatic	Semi-Automatic	Semi-Automatic	Semi-Automatic	Semi-Automatic	Semi-Automatic
Calibration Application	50ST	50ST	50ST	50ST	50ST	50ST
Min Tire Size	225/70R19 - 30.1	225/70R19 - 30.1	225/70R19 - 30.1	225/70R19 - 30.1	225/70R19 - 30.1	225/70R19 - 30.1
Max Tire Size	225/70R19 - 30.1	225/70R19 - 30.1	225/70R19 - 30.1	225/70R19 - 30.1	225/70R19 - 30.1	225/70R19 - 30.1
Alt Tire 1						
Alt Tire 2						
Alt Tire 3						
Alt Tire 4						
Alt Tire 5						
Alt Tire 6						
Alt Tire 7						
DAW Full Tank	3432	3786	3605	3943	3605	3942
DAW Empty Tank	3294	3562	3468	3719	3467	3718

Vehicle Description Report

Application: 50ST

Test Group: SFMXD06.771D

ID Number	5253768	5253792	5253808	5253824	5253793	5253876	5253896	5254724
Displacement	6.7	6.7	6.7	6.7	6.7	6.7	6.7	6.7
Cert Code	STFHTRN20101	STFHTRN20101	STFHTRN20101	STFHTRN20101	STFHTRN20101	STFHTRN20101	STFHTRN20101	STFHY3ND0101
Fuel Tank(s)	TV	TU	TU	TU	TU	TZ	TZ	TV
Carline	F250 PICKUP 2WD DIESEL	F250 PICKUP 2WD DIESEL	F250 PICKUP 2WD DIESEL	F250 PICKUP 2WD DIESEL	F250 PICKUP 2WD DIESEL	F250 PICKUP 2WD DIESEL	F250 PICKUP 2WD DIESEL	F250 PICKUP 2WD DIESEL
Wheel Configuration	SINGLE REAR WHEELS	SINGLE REAR WHEELS	SINGLE REAR WHEELS	SINGLE REAR WHEELS	SINGLE REAR WHEELS	SINGLE REAR WHEELS	SINGLE REAR WHEELS	SINGLE REAR WHEELS
Body Style	Regular Cab	Super Cab	Super Cab	Super Crew	Super Crew	Super Crew	Super Crew	Regular Cab
Wheelbase	142.0	164.0	164.0	160.0	160.0	175.5	175.5	142.0
Transcode Combo	ESC	ESC	ESC	ESC	ESC	ESC	ESC	ESC
Curb Weight	6549	6979	7107	6945	7073	7192	7320	6692
ETW	7000	7500	7500	7000	7500	7500	7500	7000
Loaded Weight LVW	6849	7279	7407	7245	7373	7492	7620	6992
ALVW-ETW	8500	9000	9000	9000	9000	9000	9000	8500
Adj. Loaded Weight	8575	8790	9054	8773	8937	8896	9210	8646
GVWR	10600	10600	11000	10600	10800	10600	11100	10600
Min Axle Ratio	3.31	3.31	3.31	3.31	3.31	3.31	3.31	3.31
Max Axle Ratio	3.55	3.31	3.55	3.31	3.55	3.31	3.55	3.55
Min N/V Ratio	23.1	23.1	23.1	23.1	23.1	23.1	23.1	23.1
Max N/V Ratio	24.8	23.1	24.8	23.1	24.8	23.1	24.8	24.8
Emission Vehicle Class	HDV2	HDV2	HDV2	HDV2	HDV2	HDV2	HDV2	HDV2
Drive Code	2-Wheel Drive, Rear	2-Wheel Drive, Rear	2-Wheel Drive, Rear	2-Wheel Drive, Rear	2-Wheel Drive, Rear	2-Wheel Drive, Rear	2-Wheel Drive, Rear	2-Wheel Drive, Rear
Trans Type	Semi-Automatic	Semi-Automatic	Semi-Automatic	Semi-Automatic	Semi-Automatic	Semi-Automatic	Semi-Automatic	Semi-Automatic
Calibration Application	50ST	50ST	50ST	50ST	50ST	50ST	50ST	50ST
Min Tire Size	LT245/75R17 - 23.1	LT245/75R17 - 23.1	LT245/75R17 - 23.1	LT245/75R17 - 23.1	LT245/75R17 - 23.1	LT245/75R17 - 23.1	LT245/75R17 - 23.1	LT245/75R17 - 23.1
Max Tire Size	LT245/75R17 - 24.8	LT245/75R17 - 23.1	LT245/75R17 - 24.8	LT245/75R17 - 23.1	LT245/75R17 - 24.8	LT245/75R17 - 23.1	LT245/75R17 - 24.8	LT245/75R17 - 24.8
Alt Tire 1								
Alt Tire 2								
Alt Tire 3								
Alt Tire 4								
Alt Tire 5								
Alt Tire 6								
Alt Tire 7								
DAW Full Tank	2558	2770	2898	2771	2899	2885	3013	2686
DAW Empty Tank	2420	2598	2726	2601	2729	2660	2788	2548

Vehicle Description Report

Application: 50ST

Test Group: SFMXD06.771D

ID Number	5254864	5254698	5254785	5253769	5253819	5253794	5253770	5253782
Displacement	6.7	6.7	6.7	6.7	6.7	6.7	6.7	6.7
Cert Code	STFHY3ND0101	STFHY3ND0101	STFHY3ND0101	STFHTRN20101	STFHTRN20101	STFHTRN20101	STFHTRN20101	STFHTRN20101
Fuel Tank(s)	TU	TU	TZ	TV	TV	TU	TU	TU
Carline	F250 PICKUP 2WD DIESEL	F250 PICKUP 2WD DIESEL	F250 PICKUP 2WD DIESEL	F250 PICKUP 4WD DIESEL	F250 PICKUP 4WD DIESEL	F250 PICKUP 4WD DIESEL	F250 PICKUP 4WD DIESEL	F250 PICKUP 4WD DIESEL
Wheel Configuration	SINGLE REAR WHEELS	SINGLE REAR WHEELS	SINGLE REAR WHEELS	SINGLE REAR WHEELS	SINGLE REAR WHEELS	SINGLE REAR WHEELS	SINGLE REAR WHEELS	SINGLE REAR WHEELS
Body Style	Super Cab	Super Crew	Super Crew	Regular Cab	Regular Cab	Super Cab	Super Cab	Super Crew
Wheelbase	164.0	160.0	175.5	142.0	142.0	164.0	164.0	160.0
Transcode Combo	ESC	ESC	ESC	ESC	ESC	ESC	ESC	ESC
Curb Weight	7122	7088	7335	7025	7153	7507	7635	7459
ETW	7500	7500	7500	7500	7500	8000	8000	8000
Loaded Weight LVW	7422	7388	7635	7325	7453	7807	7935	7759
ALVW-ETW	9000	9000	9000	9000	9000	9000	9500	9000
Adj. Loaded Weight	9061	8944	9218	8813	9077	9053	9417	9029
GVWR	11000	10800	11100	10600	11000	10600	11200	10600
Min Axle Ratio	3.31	3.31	3.31	3.31	3.31	3.31	3.31	3.31
Max Axle Ratio	3.55	3.55	3.55	3.31	3.55	3.31	3.55	3.31
Min N/V Ratio	23.1	23.1	23.1	21.9	21.9	21.3	21.3	21.3
Max N/V Ratio	24.8	24.8	24.8	23.1	24.8	23.1	24.8	23.1
Emission Vehicle Class	HDV2	HDV2	HDV2	HDV2	HDV2	HDV2	HDV2	HDV2
Drive Code	2-Wheel Drive, Rear	2-Wheel Drive, Rear	2-Wheel Drive, Rear	Part-time 4-Wheel Drive	Part-time 4-Wheel Drive	Part-time 4-Wheel Drive	Part-time 4-Wheel Drive	Part-time 4-Wheel Drive
Trans Type	Semi-Automatic	Semi-Automatic	Semi-Automatic	Semi-Automatic	Semi-Automatic	Semi-Automatic	Semi-Automatic	Semi-Automatic
Calibration Application	50ST	50ST	50ST	50ST	50ST	50ST	50ST	50ST
Min Tire Size	LT245/75R17 - 23.1	LT245/75R17 - 23.1	LT245/75R17 - 23.1	LT245/75R17 - 23.1	LT245/75R17 - 23.1	LT245/75R17 - 23.1	LT245/75R17 - 23.1	LT245/75R17 - 23.1
Max Tire Size	LT245/75R17 - 24.8	LT245/75R17 - 24.8	LT245/75R17 - 24.8	LT285/70R17 - 22.2	LT285/70R17 - 23.8	LT285/70R17 - 22.2	LT285/70R17 - 23.8	LT285/70R17 - 22.2
Alt Tire 1				LT275/65R18 - 22.7	LT245/75R17 - 24.8	LT275/65R20 - 21.3	LT275/65R18 - 24.3	LT275/65R18 - 22.7
Alt Tire 2				LT275/70R18 - 21.9	LT275/70R18 - 21.9	LT275/70R18 - 21.9	LT275/65R18 - 22.7	LT275/70R18 - 21.9
Alt Tire 3					LT275/70R18 - 23.5	LT275/65R18 - 22.7	LT285/70R17 - 22.2	LT275/65R20 - 21.3
Alt Tire 4					LT285/70R17 - 22.2		LT275/70R18 - 23.5	
Alt Tire 5					LT275/65R18 - 22.7		LT275/70R18 - 21.9	
Alt Tire 6					LT275/65R18 - 24.3		LT275/65R20 - 21.3	
Alt Tire 7							LT275/65R20 - 22.9	
DAW Full Tank	2898	2899	3013	2677	2805	2901	3029	2911
DAW Empty Tank	2726	2729	2788	2539	2667	2729	2857	2740

Vehicle Description Report

Application: 50ST

Test Group: SFMXD06.771D

ID Number	5253767	5253772	5253781	5254695	5254691	5254696	5254697	5254710
Displacement	6.7	6.7	6.7	6.7	6.7	6.7	6.7	6.7
Cert Code	STFHTRN20101	STFHTRN20101	STFHTRN20101	STFHY3ND0101	STFHY3ND0101	STFHY3ND0101	STFHY3ND0101	STFHY3ND0101
Fuel Tank(s)	TU	TZ	TZ	TV	TU	TU	TU	TZ
Carline	F250 PICKUP 4WD DIESEL	F250 PICKUP 4WD DIESEL	F250 PICKUP 4WD DIESEL	F250 PICKUP 4WD DIESEL	F250 PICKUP 4WD DIESEL	F250 PICKUP 4WD DIESEL	F250 PICKUP 4WD DIESEL	F250 PICKUP 4WD DIESEL
Wheel Configuration	SINGLE REAR WHEELS	SINGLE REAR WHEELS	SINGLE REAR WHEELS	SINGLE REAR WHEELS	SINGLE REAR WHEELS	SINGLE REAR WHEELS	SINGLE REAR WHEELS	SINGLE REAR WHEELS
Body Style	Super Crew	Super Crew	Super Crew	Regular Cab	Super Cab	Super Crew	Super Crew	Super Crew
Wheelbase	160.0	175.5	175.5	142.0	164.0	160.0	160.0	175.5
Transcode Combo	ESC	ESC	ESC	ESC	ESC	ESC	ESC	ESC
Curb Weight	7587	7783	7911	7168	7650	7503	7602	7926
ETW	8000	8000	8000	7500	8000	8000	8000	8000
Loaded Weight LVW	7887	8083	8211	7468	7950	7803	7902	8226
ALVW-ETW	9500	9000	9500	9000	9500	9500	9500	9500
Adj. Loaded Weight	9343	9191	9555	9084	9525	9252	9351	9663
GVWR	11100	10600	11200	11000	11400	11000	11100	11400
Min Axle Ratio	3.31	3.31	3.31	3.31	3.31	3.55	3.31	3.31
Max Axle Ratio	3.55	3.31	3.55	3.55	3.55	3.55	3.55	3.55
Min N/V Ratio	21.3	21.3	21.3	21.9	21.3	22.4	21.3	21.3
Max N/V Ratio	24.8	23.1	24.8	24.8	24.8	22.4	24.8	24.8
Emission Vehicle Class	HDV2	HDV2	HDV2	HDV2	HDV2	HDV2	HDV2	HDV2
Drive Code	Part-time 4-Wheel Drive	Part-time 4-Wheel Drive	Part-time 4-Wheel Drive	Part-time 4-Wheel Drive	Part-time 4-Wheel Drive	Part-time 4-Wheel Drive	Part-time 4-Wheel Drive	Part-time 4-Wheel Drive
Trans Type	Semi-Automatic	Semi-Automatic	Semi-Automatic	Semi-Automatic	Semi-Automatic	Semi-Automatic	Semi-Automatic	Semi-Automatic
Calibration Application	50ST	50ST	50ST	50ST	50ST	50ST	50ST	50ST
Min Tire Size	LT245/75R17 - 23.1	LT245/75R17 - 23.1	LT245/75R17 - 23.1	LT245/75R17 - 23.1	LT245/75R17 - 23.1	LT285/75R18 - 22.4	LT245/75R17 - 23.1	LT245/75R17 - 23.1
Max Tire Size	LT285/70R17 - 23.8	LT285/70R17 - 22.2	LT285/70R17 - 23.8	LT285/70R17 - 23.8	LT285/70R17 - 23.8	LT285/75R18 - 22.4	LT285/70R17 - 23.8	LT285/70R17 - 23.8
Alt Tire 1	LT285/70R17 - 22.2	LT275/65R20 - 21.3	LT275/65R20 - 22.9	LT275/70R18 - 23.5	LT275/65R20 - 22.9		LT245/75R17 - 24.8	LT275/65R18 - 24.3
Alt Tire 2	LT275/70R18 - 23.5	LT275/65R18 - 22.7	LT245/75R17 - 24.8	LT285/70R17 - 22.2	LT285/70R17 - 22.2		LT275/65R20 - 22.9	LT275/65R18 - 22.7
Alt Tire 3	LT275/65R18 - 24.3	LT275/70R18 - 21.9	LT275/70R18 - 21.9	LT275/65R18 - 24.3	LT275/70R18 - 23.5		LT275/65R18 - 22.7	LT275/70R18 - 21.9
Alt Tire 4	LT275/65R18 - 22.7		LT275/65R20 - 21.3	LT275/65R18 - 22.7	LT275/65R18 - 22.7		LT275/65R18 - 24.3	LT275/65R20 - 21.3
Alt Tire 5	LT245/75R17 - 24.8		LT275/65R18 - 22.7	LT245/75R17 - 24.8	LT275/65R18 - 24.3		LT285/70R17 - 22.2	LT245/75R17 - 24.8
Alt Tire 6	LT275/65R20 - 22.9		LT275/65R18 - 24.3	LT275/70R18 - 21.9	LT275/65R20 - 21.3		LT275/70R18 - 23.5	LT275/65R20 - 22.9
Alt Tire 7	LT275/70R18 - 21.9		LT275/70R18 - 23.5		LT275/70R18 - 21.9		LT275/70R18 - 21.9	LT275/70R18 - 23.5
DAW Full Tank	3039	3016	3144	2805	3029	2980	3039	3144
DAW Empty Tank	2868	2792	2920	2667	2857	2810	2868	2920

Vehicle Description Report

Application: 50ST

Test Group: SFMXD06.771D

ID Number	5254038	5254052	5254029	5254050	5254059	5254112	5254178	5254155
Displacement	6.7	6.7	6.7	6.7	6.7	6.7	6.7	6.7
Cert Code	STFHTRN30101	STFHTRN30101	STFHTRN30101	STFHTRN30101	STFHTRN30101	STFHTRN30101	STFHTRN30101	STFHTRN30101
Fuel Tank(s)	TV	TV	TU	TU	TU	TU	TZ	TZ
Carline	F350 PICKUP 2WD DIESEL	F350 PICKUP 2WD DIESEL	F350 PICKUP 2WD DIESEL	F350 PICKUP 2WD DIESEL	F350 PICKUP 2WD DIESEL	F350 PICKUP 2WD DIESEL	F350 PICKUP 2WD DIESEL	F350 PICKUP 2WD DIESEL
Wheel Configuration	SINGLE REAR WHEELS	SINGLE REAR WHEELS	SINGLE REAR WHEELS	SINGLE REAR WHEELS	SINGLE REAR WHEELS	SINGLE REAR WHEELS	SINGLE REAR WHEELS	SINGLE REAR WHEELS
Body Style	Regular Cab	Regular Cab	Super Cab	Super Cab	Super Crew	Super Crew	Super Crew	Super Crew
Wheelbase	142.0	142.0	164.0	164.0	160.0	160.0	175.5	175.5
Transcode Combo	ESC	ESC	ESC	ESC	ESC	ESC	ESC	ESC
Curb Weight	6623	6681	7077	7135	7061	7119	7298	7356
ETW	7000	7000	7500	7500	7500	7500	7500	7500
Loaded Weight LVW	6923	6981	7377	7435	7361	7419	7598	7656
ALVW-ETW	8500	9000	9000	9500	9000	9000	9000	9500
Adj. Loaded Weight	8611	8890	9038	9317	8930	9209	9199	9427
GVWR	10600	11100	11000	11499	10800	11300	11100	11499
Min Axle Ratio	3.31	3.31	3.31	3.31	3.31	3.31	3.31	3.31
Max Axle Ratio	3.55	3.55	3.55	3.55	3.55	3.55	3.55	3.55
Min N/V Ratio	23.1	22.7	23.1	22.7	23.1	22.7	23.1	22.7
Max N/V Ratio	24.8	24.3	24.8	24.3	24.8	24.3	24.8	24.3
Emission Vehicle Class	HDV2	HDV2	HDV2	HDV2	HDV2	HDV2	HDV2	HDV2
Drive Code	2-Wheel Drive, Rear	2-Wheel Drive, Rear	2-Wheel Drive, Rear	2-Wheel Drive, Rear	2-Wheel Drive, Rear	2-Wheel Drive, Rear	2-Wheel Drive, Rear	2-Wheel Drive, Rear
Trans Type	Semi-Automatic	Semi-Automatic	Semi-Automatic	Semi-Automatic	Semi-Automatic	Semi-Automatic	Semi-Automatic	Semi-Automatic
Calibration Application	50ST	50ST	50ST	50ST	50ST	50ST	50ST	50ST
Min Tire Size	LT245/75R17 - 23.1	LT275/65R18 - 22.7	LT245/75R17 - 23.1	LT275/65R18 - 22.7	LT245/75R17 - 23.1	LT275/65R18 - 22.7	LT245/75R17 - 23.1	LT275/65R18 - 22.7
Max Tire Size	LT245/75R17 - 24.8	LT275/65R18 - 24.3	LT245/75R17 - 24.8	LT275/65R18 - 24.3	LT245/75R17 - 24.8	LT275/65R18 - 24.3	LT245/75R17 - 24.8	LT275/65R18 - 24.3
Alt Tire 1								
Alt Tire 2								
Alt Tire 3								
Alt Tire 4								
Alt Tire 5								
Alt Tire 6								
Alt Tire 7								
DAW Full Tank	2701	2738	2903	2940	2921	2958	2994	3031
DAW Empty Tank	2563	2600	2730	2767	2750	2787	2770	2807

Vehicle Description Report

Application: 50ST

Test Group: SFMXD06.771D

ID Number	5254335	5254372	5254643	5254651	5254725	5254830	5254734	5254739
Displacement	6.7	6.7	6.7	6.7	6.7	6.7	6.7	6.7
Cert Code	STFHTRN40101	STFHTRN40101	STFHTRN50101	STFHTRN50101	STFHY3ND0101	STFHY3ND0101	STFHY3ND0101	STFHY3ND0101
Fuel Tank(s)	TV	TZ	TV	TZ	TV	TV	TU	TU
Carline	F350 PICKUP 2WD DIESEL	F350 PICKUP 2WD DIESEL	F350 PICKUP 2WD DIESEL	F350 PICKUP 2WD DIESEL	F350 PICKUP 2WD DIESEL	F350 PICKUP 2WD DIESEL	F350 PICKUP 2WD DIESEL	F350 PICKUP 2WD DIESEL
Wheel Configuration	DUAL REAR WHEELS	DUAL REAR WHEELS	DUAL REAR WHEELS	DUAL REAR WHEELS	SINGLE REAR WHEELS	SINGLE REAR WHEELS	SINGLE REAR WHEELS	SINGLE REAR WHEELS
Body Style	Regular Cab	Super Crew	Regular Cab	Super Crew	Regular Cab	Regular Cab	Super Cab	Super Cab
Wheelbase	142.0	175.5	142.0	175.5	142.0	142.0	164.0	164.0
Transcode Combo	ESC	ESC	ESC	ESC	ESC	ESC	ESC	ESC
Curb Weight	7186	7857	7186	7857	6638	6696	7092	7150
ETW	7500	8000	7500	8000	7000	7000	7500	7500
Loaded Weight LVW	7486	8157	7486	8157	6938	6996	7392	7450
ALVW-ETW	10500	11000	10500	11000	8500	9000	9000	9500
Adj. Loaded Weight	10593	10928	10593	10928	8619	8898	9046	9324
GVWR	14000	14000	14000	14000	10600	11100	11000	11499
Min Axle Ratio	3.55	3.55	4.1	4.1	3.31	3.31	3.55	3.55
Max Axle Ratio	3.55	3.55	4.1	4.1	3.55	3.55	3.55	3.55
Min N/V Ratio	24.8	24.8	28.6	28.6	23.1	22.7	24.8	24.3
Max N/V Ratio	24.8	24.8	28.6	28.6	24.8	24.3	24.8	24.3
Emission Vehicle Class	HDV2	HDV2	HDV2	HDV2	HDV2	HDV2	HDV2	HDV2
Drive Code	2-Wheel Drive, Rear	2-Wheel Drive, Rear	2-Wheel Drive, Rear	2-Wheel Drive, Rear	2-Wheel Drive, Rear	2-Wheel Drive, Rear	2-Wheel Drive, Rear	2-Wheel Drive, Rear
Trans Type	Semi-Automatic	Semi-Automatic	Semi-Automatic	Semi-Automatic	Semi-Automatic	Semi-Automatic	Semi-Automatic	Semi-Automatic
Calibration Application	50ST	50ST	50ST	50ST	50ST	50ST	50ST	50ST
Min Tire Size	LT245/75R17 - 24.8	LT245/75R17 - 24.8	LT245/75R17 - 28.6	LT245/75R17 - 28.6	LT245/75R17 - 23.1	LT275/65R18 - 22.7	LT245/75R17 - 24.8	LT275/65R18 - 24.3
Max Tire Size	LT245/75R17 - 24.8	LT245/75R17 - 24.8	LT245/75R17 - 28.6	LT245/75R17 - 28.6	LT245/75R17 - 24.8	LT275/65R18 - 24.3	LT245/75R17 - 24.8	LT275/65R18 - 24.3
Alt Tire 1								
Alt Tire 2								
Alt Tire 3								
Alt Tire 4								
Alt Tire 5								
Alt Tire 6								
Alt Tire 7								
DAW Full Tank	3051	3437	3051	3437	2700	2737	2898	2935
DAW Empty Tank	2914	3213	2914	3213	2563	2600	2725	2762

Vehicle Description Report

Application: 50ST

Test Group: SFMXD06.771D

ID Number	5254760	5254877	5255086	5255007	5255326	5255316	5254113	5254096
Displacement	6.7	6.7	6.7	6.7	6.7	6.7	6.7	6.7
Cert Code	STFHY3ND0101	STFHY3ND0101	STFHY3NS0101	STFHY3NS0101	STFHY3NT0101	STFHY3NT0101	STFHTRN30101	STFHTRN30101
Fuel Tank(s)	TZ	TZ	TV	TZ	TV	TZ	TV	TV
Carline	F350 PICKUP 2WD DIESEL	F350 PICKUP 2WD DIESEL	F350 PICKUP 2WD DIESEL	F350 PICKUP 2WD DIESEL	F350 PICKUP 2WD DIESEL	F350 PICKUP 2WD DIESEL	F350 PICKUP 4WD DIESEL	F350 PICKUP 4WD DIESEL
Wheel Configuration	SINGLE REAR WHEELS	SINGLE REAR WHEELS	DUAL REAR WHEELS	DUAL REAR WHEELS	DUAL REAR WHEELS	DUAL REAR WHEELS	SINGLE REAR WHEELS	SINGLE REAR WHEELS
Body Style	Super Crew	Super Crew	Regular Cab	Super Crew	Regular Cab	Super Crew	Regular Cab	Regular Cab
Wheelbase	175.5	175.5	142.0	175.5	142.0	175.5	142.0	142.0
Transcode Combo	ESC	ESC	ESC	ESC	ESC	ESC	ESC	ESC
Curb Weight	7283	7341	7202	7871	7202	7871	7234	7292
ETW	7500	7500	7500	8000	7500	8000	7500	7500
Loaded Weight LVW	7583	7641	7502	8171	7502	8171	7534	7592
ALVW-ETW	9000	9500	10500	11000	10500	11000	9000	9500
Adj. Loaded Weight	9191	9420	10601	10935	10601	10935	9117	9396
GVWR	11100	11499	14000	14000	14000	14000	11000	11499
Min Axle Ratio	3.31	3.31	3.55	3.55	4.1	4.1	3.31	3.31
Max Axle Ratio	3.55	3.55	3.55	3.55	4.1	4.1	3.55	3.55
Min N/V Ratio	23.1	22.7	24.8	24.8	28.6	28.6	22.2	22.7
Max N/V Ratio	24.8	24.3	24.8	24.8	28.6	28.6	24.8	24.3
Emission Vehicle Class	HDV2	HDV2	HDV2	HDV2	HDV2	HDV2	HDV2	HDV2
Drive Code	2-Wheel Drive, Rear	2-Wheel Drive, Rear	2-Wheel Drive, Rear	2-Wheel Drive, Rear	2-Wheel Drive, Rear	2-Wheel Drive, Rear	Part-time 4-Wheel Drive	Part-time 4-Wheel Drive
Trans Type	Semi-Automatic	Semi-Automatic	Semi-Automatic	Semi-Automatic	Semi-Automatic	Semi-Automatic	Semi-Automatic	Semi-Automatic
Calibration Application	50ST	50ST	50ST	50ST	50ST	50ST	50ST	50ST
Min Tire Size	LT245/75R17 - 23.1	LT275/65R18 - 22.7	LT245/75R17 - 24.8	LT245/75R17 - 24.8	LT245/75R17 - 28.6	LT245/75R17 - 28.6	LT245/75R17 - 23.1	LT275/65R18 - 22.7
Max Tire Size	LT245/75R17 - 24.8	LT275/65R18 - 24.3	LT245/75R17 - 24.8	LT245/75R17 - 24.8	LT245/75R17 - 28.6	LT245/75R17 - 28.6	LT285/70R17 - 23.8	LT275/65R18 - 24.3
Alt Tire 1							LT245/75R17 - 24.8	
Alt Tire 2							LT285/70R17 - 22.2	
Alt Tire 3								
Alt Tire 4								
Alt Tire 5								
Alt Tire 6								
Alt Tire 7								
DAW Full Tank	2984	3021	3052	3427	3052	3427	2849	2886
DAW Empty Tank	2760	2797	2914	3203	2914	3203	2711	2748

Vehicle Description Report

Application: 50ST

Test Group: SFMXD06.771D

ID Number	5254060	5254031	5254285	5254140	5254061	5254062	5254132	5254036
Displacement	6.7	6.7	6.7	6.7	6.7	6.7	6.7	6.7
Cert Code	STFHTRN30101	STFHTRN30101	STFHTRN30101	STFHTRN30101	STFHTRN30101	STFHTRN30101	STFHTRN30101	STFHTRN30101
Fuel Tank(s)	TV	TU	TU	TU	TU	TU	TU	TZ
Carline	F350 PICKUP 4WD DIESEL	F350 PICKUP 4WD DIESEL	F350 PICKUP 4WD DIESEL	F350 PICKUP 4WD DIESEL	F350 PICKUP 4WD DIESEL	F350 PICKUP 4WD DIESEL	F350 PICKUP 4WD DIESEL	F350 PICKUP 4WD DIESEL
Wheel Configuration	SINGLE REAR WHEELS	SINGLE REAR WHEELS	SINGLE REAR WHEELS	SINGLE REAR WHEELS	SINGLE REAR WHEELS	SINGLE REAR WHEELS	SINGLE REAR WHEELS	SINGLE REAR WHEELS
Body Style	Regular Cab	Super Cab	Super Cab	Super Cab	Super Crew	Super Crew	Super Crew	Super Crew
Wheelbase	142.0	164.0	164.0	164.0	160.0	160.0	160.0	175.5
Transcode Combo	ESC	ESC	ESC	ESC	ESC	ESC	ESC	ESC
Curb Weight	7297	7741	7799	7804	7774	7832	7837	8021
ETW	7500	8000	8000	8000	8000	8000	8000	8500
Loaded Weight LVW	7597	8041	8099	8104	8074	8132	8137	8321
ALVW-ETW	9500	9500	9500	10000	9500	9500	10000	10000
Adj. Loaded Weight	9649	9520	9649	10052	9487	9665	9918	9760
GVWR	12000	11300	11499	12300	11200	11499	12000	11499
Min Axle Ratio	3.31	3.31	3.31	3.31	3.31	3.31	3.31	3.31
Max Axle Ratio	3.55	3.55	3.55	3.55	3.55	3.55	3.55	3.55
Min N/V Ratio	21.9	22.2	22.7	21.3	22.2	22.7	21.3	22.2
Max N/V Ratio	23.5	24.8	24.3	23.5	24.8	24.3	23.5	24.8
Emission Vehicle Class	HDV2	HDV2	HDV2	HDV2	HDV2	HDV2	HDV2	HDV2
Drive Code	Part-time 4-Wheel Drive	Part-time 4-Wheel Drive	Part-time 4-Wheel Drive	Part-time 4-Wheel Drive	Part-time 4-Wheel Drive	Part-time 4-Wheel Drive	Part-time 4-Wheel Drive	Part-time 4-Wheel Drive
Trans Type	Semi-Automatic	Semi-Automatic	Semi-Automatic	Semi-Automatic	Semi-Automatic	Semi-Automatic	Semi-Automatic	Semi-Automatic
Calibration Application	50ST	50ST	50ST	50ST	50ST	50ST	50ST	50ST
Min Tire Size	LT275/70R18 - 21.9	LT245/75R17 - 23.1	LT275/65R18 - 22.7	LT275/65R20 - 21.3	LT245/75R17 - 23.1	LT275/65R18 - 22.7	LT275/65R20 - 21.3	LT245/75R17 - 23.1
Max Tire Size	LT275/70R18 - 23.5	LT285/70R17 - 23.8	LT275/65R18 - 24.3	LT275/70R18 - 23.5	LT285/70R17 - 23.8	LT275/65R18 - 24.3	LT275/70R18 - 23.5	LT285/70R17 - 23.8
Alt Tire 1		LT245/75R17 - 24.8		LT275/65R20 - 22.9	LT285/70R17 - 22.2		LT275/70R18 - 21.9	LT285/70R17 - 22.2
Alt Tire 2		LT285/70R17 - 22.2		LT275/70R18 - 21.9	LT245/75R17 - 24.8		LT275/65R20 - 22.9	LT245/75R17 - 24.8
Alt Tire 3								
Alt Tire 4								
Alt Tire 5								
Alt Tire 6								
Alt Tire 7								
DAW Full Tank	2888	3146	3183	3185	3166	3203	3205	3267
DAW Empty Tank	2750	2973	3010	3012	2995	3032	3034	3043

Vehicle Description Report

Application: 50ST

Test Group: SFMXD06.771D

ID Number	5254147	5254081	5254345	5254414	5254645	5254653	5254706	5254738
Displacement	6.7	6.7	6.7	6.7	6.7	6.7	6.7	6.7
Cert Code	STFHTRN30101	STFHTRN30101	STFHTRN40101	STFHTRN40101	STFHTRN50101	STFHTRN50101	STFHY3ND0101	STFHY3ND0101
Fuel Tank(s)	TZ	TZ	TV	TZ	TV	TZ	TV	TV
Carline	F350 PICKUP 4WD DIESEL	F350 PICKUP 4WD DIESEL	F350 PICKUP 4WD DIESEL	F350 PICKUP 4WD DIESEL	F350 PICKUP 4WD DIESEL	F350 PICKUP 4WD DIESEL	F350 PICKUP 4WD DIESEL	F350 PICKUP 4WD DIESEL
Wheel Configuration	SINGLE REAR WHEELS	SINGLE REAR WHEELS	DUAL REAR WHEELS	DUAL REAR WHEELS	DUAL REAR WHEELS	DUAL REAR WHEELS	SINGLE REAR WHEELS	SINGLE REAR WHEELS
Body Style	Super Crew	Super Crew	Regular Cab	Super Crew	Regular Cab	Super Crew	Regular Cab	Regular Cab
Wheelbase	175.5	175.5	142.0	175.5	142.0	175.5	142.0	142.0
Transcode Combo	ESC	ESC	ESC	ESC	ESC	ESC	ESC	ESC
Curb Weight	8079	8084	7613	8302	7613	8302	7249	7307
ETW	8500	8500	8000	8500	8000	8500	7500	7500
Loaded Weight LVW	8379	8384	7913	8602	7913	8602	7549	7607
ALVW-ETW	10000	10000	11000	11000	11000	11000	9000	9500
Adj. Loaded Weight	10039	10242	10806	11151	10806	11151	9125	9403
GVWR	12000	12400	14000	14000	14000	14000	11000	11499
Min Axle Ratio	3.31	3.31	3.55	3.55	4.1	4.1	3.31	3.31
Max Axle Ratio	3.55	3.55	3.55	3.55	4.1	4.1	3.55	3.55
Min N/V Ratio	22.7	21.3	24.8	24.8	28.6	28.6	22.2	22.7
Max N/V Ratio	24.3	23.5	24.8	24.8	28.6	28.6	24.8	24.3
Emission Vehicle Class	HDV2	HDV2	HDV2	HDV2	HDV2	HDV2	HDV2	HDV2
Drive Code	Part-time 4-Wheel Drive	Part-time 4-Wheel Drive	Part-time 4-Wheel Drive	Part-time 4-Wheel Drive	Part-time 4-Wheel Drive	Part-time 4-Wheel Drive	Part-time 4-Wheel Drive	Part-time 4-Wheel Drive
Trans Type	Semi-Automatic	Semi-Automatic	Semi-Automatic	Semi-Automatic	Semi-Automatic	Semi-Automatic	Semi-Automatic	Semi-Automatic
Calibration Application	50ST	50ST	50ST	50ST	50ST	50ST	50ST	50ST
Min Tire Size	LT275/65R18 - 22.7	LT275/65R20 - 21.3	LT245/75R17 - 24.8	LT245/75R17 - 24.8	LT245/75R17 - 28.6	LT245/75R17 - 28.6	LT245/75R17 - 23.1	LT275/65R18 - 22.7
Max Tire Size	LT275/65R18 - 24.3	LT275/70R18 - 23.5	LT245/75R17 - 24.8	LT245/75R17 - 24.8	LT245/75R17 - 28.6	LT245/75R17 - 28.6	LT285/70R17 - 23.8	LT275/65R18 - 24.3
Alt Tire 1		LT275/70R18 - 21.9					LT245/75R17 - 24.8	
Alt Tire 2		LT275/65R20 - 22.9					LT285/70R17 - 22.2	
Alt Tire 3								
Alt Tire 4								
Alt Tire 5								
Alt Tire 6								
Alt Tire 7								
DAW Full Tank	3304	3306	3229	3556	3229	3556	2848	2885
DAW Empty Tank	3080	3082	3091	3332	3091	3332	2711	2748

Vehicle Description Report

Application: 50ST

Test Group: SFMXD06.771D

ID Number	5254884	5254699	5254721	5254708	5254750	5254736	5254732	5254715
Displacement	6.7	6.7	6.7	6.7	6.7	6.7	6.7	6.7
Cert Code	STFHY3ND0101	STFHY3ND0101	STFHY3ND0101	STFHY3ND0101	STFHY3ND0101	STFHY3ND0101	STFHY3ND0101	STFHY3ND0101
Fuel Tank(s)	TV	TU	TU	TU	TU	TU	TU	TZ
Carline	F350 PICKUP 4WD DIESEL	F350 PICKUP 4WD DIESEL	F350 PICKUP 4WD DIESEL	F350 PICKUP 4WD DIESEL	F350 PICKUP 4WD DIESEL	F350 PICKUP 4WD DIESEL	F350 PICKUP 4WD DIESEL	F350 PICKUP 4WD DIESEL
Wheel Configuration	SINGLE REAR WHEELS	SINGLE REAR WHEELS	SINGLE REAR WHEELS	SINGLE REAR WHEELS	SINGLE REAR WHEELS	SINGLE REAR WHEELS	SINGLE REAR WHEELS	SINGLE REAR WHEELS
Body Style	Regular Cab	Super Cab	Super Cab	Super Cab	Super Crew	Super Crew	Super Crew	Super Crew
Wheelbase	142.0	164.0	164.0	164.0	160.0	160.0	160.0	175.5
Transcode Combo	ESC	ESC	ESC	ESC	ESC	ESC	ESC	ESC
Curb Weight	7312	7772	7830	7835	7789	7847	7852	8036
ETW	7500	8000	8000	8000	8000	8000	8000	8500
Loaded Weight LVW	7612	8072	8130	8135	8089	8147	8152	8336
ALVW-ETW	9500	9500	9500	10000	9500	9500	10000	10000
Adj. Loaded Weight	9656	9536	9664	10067	9494	9673	9926	9767
GVWR	12000	11300	11499	12300	11200	11499	12000	11499
Min Axle Ratio	3.31	3.31	3.31	3.31	3.31	3.31	3.31	3.31
Max Axle Ratio	3.55	3.55	3.55	3.55	3.55	3.55	3.55	3.55
Min N/V Ratio	21.9	22.2	22.7	21.3	22.2	22.7	21.3	22.2
Max N/V Ratio	23.5	24.8	24.3	23.5	24.8	24.3	23.5	24.8
Emission Vehicle Class	HDV2	HDV2	HDV2	HDV2	HDV2	HDV2	HDV2	HDV2
Drive Code	Part-time 4-Wheel Drive	Part-time 4-Wheel Drive	Part-time 4-Wheel Drive	Part-time 4-Wheel Drive	Part-time 4-Wheel Drive	Part-time 4-Wheel Drive	Part-time 4-Wheel Drive	Part-time 4-Wheel Drive
Trans Type	Semi-Automatic	Semi-Automatic	Semi-Automatic	Semi-Automatic	Semi-Automatic	Semi-Automatic	Semi-Automatic	Semi-Automatic
Calibration Application	50ST	50ST	50ST	50ST	50ST	50ST	50ST	50ST
Min Tire Size	LT275/70R18 - 21.9	LT245/75R17 - 23.1	LT275/65R18 - 22.7	LT275/65R20 - 21.3	LT245/75R17 - 23.1	LT275/65R18 - 22.7	LT275/65R20 - 21.3	LT245/75R17 - 23.1
Max Tire Size	LT275/70R18 - 23.5	LT285/70R17 - 23.8	LT275/65R18 - 24.3	LT275/70R18 - 23.5	LT285/70R17 - 23.8	LT275/65R18 - 24.3	LT285/75R18 - 22.4	LT285/70R17 - 23.8
Alt Tire 1		LT245/75R17 - 24.8		LT275/65R20 - 22.9	LT285/70R17 - 22.2		LT275/70R18 - 21.9	LT285/70R17 - 22.2
Alt Tire 2		LT285/70R17 - 22.2		LT275/70R18 - 21.9	LT245/75R17 - 24.8		LT275/70R18 - 23.5	LT245/75R17 - 24.8
Alt Tire 3							LT275/65R20 - 22.9	
Alt Tire 4								
Alt Tire 5								
Alt Tire 6								
Alt Tire 7								
DAW Full Tank	2887	3146	3183	3185	3165	3202	3204	3266
DAW Empty Tank	2750	2974	3011	3013	2994	3031	3033	3042

Vehicle Description Report

Application: 50ST

Test Group: SFMXD06.771D

ID Number	5254745	5254770	5255230	5255001	5255310	5255305	5254672	5254675
Displacement	6.7	6.7	6.7	6.7	6.7	6.7	6.7	6.7
Cert Code	STFHY3ND0101	STFHY3ND0101	STFHY3NS0101	STFHY3NS0101	STFHY3NT0101	STFHY3NT0101	STFHTRN60101	STFHTRN60101
Fuel Tank(s)	TZ	TZ	TV	TZ	TV	TZ	TV	TZ
Carline	F350 PICKUP 4WD DIESEL	F350 PICKUP 4WD DIESEL	F350 PICKUP 4WD DIESEL	F350 PICKUP 4WD DIESEL	F350 PICKUP 4WD DIESEL	F350 PICKUP 4WD DIESEL	F450 PICKUP 2WD DIESEL	F450 PICKUP 2WD DIESEL
Wheel Configuration	SINGLE REAR WHEELS	SINGLE REAR WHEELS	DUAL REAR WHEELS	DUAL REAR WHEELS	DUAL REAR WHEELS	DUAL REAR WHEELS	DUAL REAR WHEELS	DUAL REAR WHEELS
Body Style	Super Crew	Super Crew	Regular Cab	Super Crew	Regular Cab	Super Crew	Regular Cab	Super Crew
Wheelbase	175.5	175.5	142.0	175.5	142.0	175.5	142.0	175.5
Transcode Combo	ESC	ESC	ESC	ESC	ESC	ESC	ESC	ESC
Curb Weight	8094	8099	7628	8317	7628	8317	7730	8399
ETW	8500	8500	8000	8500	8000	8500	8000	8500
Loaded Weight LVW	8394	8399	7928	8617	7928	8617	8030	8699
ALVW-ETW	10000	10000	11000	11000	11000	11000	11000	11000
Adj. Loaded Weight	10047	10249	10814	11159	10814	11159	10865	11200
GVWR	12000	12400	14000	14000	14000	14000	14000	14000
Min Axle Ratio	3.31	3.31	3.55	3.55	4.1	4.1	4.3	4.3
Max Axle Ratio	3.55	3.55	3.55	3.55	4.1	4.1	4.3	4.3
Min N/V Ratio	22.7	21.3	24.8	24.8	28.6	28.6	30.1	30.1
Max N/V Ratio	24.3	23.5	24.8	24.8	28.6	28.6	30.1	30.1
Emission Vehicle Class	HDV2	HDV2	HDV2	HDV2	HDV2	HDV2	HDV2	HDV2
Drive Code	Part-time 4-Wheel Drive	Part-time 4-Wheel Drive	Part-time 4-Wheel Drive	Part-time 4-Wheel Drive	Part-time 4-Wheel Drive	Part-time 4-Wheel Drive	2-Wheel Drive, Rear	2-Wheel Drive, Rear
Trans Type	Semi-Automatic	Semi-Automatic	Semi-Automatic	Semi-Automatic	Semi-Automatic	Semi-Automatic	Semi-Automatic	Semi-Automatic
Calibration Application	50ST	50ST	50ST	50ST	50ST	50ST	50ST	50ST
Min Tire Size	LT275/65R18 - 22.7	LT275/65R20 - 21.3	LT245/75R17 - 24.8	LT245/75R17 - 24.8	LT245/75R17 - 28.6	LT245/75R17 - 28.6	225/70R19 - 30.1	225/70R19 - 30.1
Max Tire Size	LT275/65R18 - 24.3	LT275/70R18 - 23.5	LT245/75R17 - 24.8	LT245/75R17 - 24.8	LT245/75R17 - 28.6	LT245/75R17 - 28.6	225/70R19 - 30.1	225/70R19 - 30.1
Alt Tire 1		LT275/65R20 - 22.9						
Alt Tire 2		LT275/70R18 - 21.9						
Alt Tire 3								
Alt Tire 4								
Alt Tire 5								
Alt Tire 6								
Alt Tire 7								
DAW Full Tank	3303	3305	3228	3556	3228	3556	3381	3787
DAW Empty Tank	3079	3081	3090	3332	3090	3332	3244	3562

Vehicle Description Report

Application: 50ST

Test Group: SFMXD06.771D

ID Number	5255342	5255331	5254680	5254668	5255346	5255333
Displacement	6.7	6.7	6.7	6.7	6.7	6.7
Cert Code	STFHY3NX0101	STFHY3NX0101	STFHTRN60101	STFHTRN60101	STFHY3NX0101	STFHY3NX0101
Fuel Tank(s)	TV	TZ	TV	TZ	TV	TZ
Carline	F450 PICKUP 2WD DIESEL	F450 PICKUP 2WD DIESEL	F450 PICKUP 4WD DIESEL	F450 PICKUP 4WD DIESEL	F450 PICKUP 4WD DIESEL	F450 PICKUP 4WD DIESEL
Wheel Configuration	DUAL REAR WHEELS	DUAL REAR WHEELS	DUAL REAR WHEELS	DUAL REAR WHEELS	DUAL REAR WHEELS	DUAL REAR WHEELS
Body Style	Regular Cab	Super Crew	Regular Cab	Super Crew	Regular Cab	Super Crew
Wheelbase	142.0	175.5	142.0	175.5	142.0	175.5
Transcode Combo	ESC	ESC	ESC	ESC	ESC	ESC
Curb Weight	7746	8414	8213	8906	8228	8921
ETW	8000	8500	8500	9000	8500	9000
Loaded Weight LVW	8046	8714	8513	9206	8528	9221
ALVW-ETW	11000	11000	11000	11500	11000	11500
Adj. Loaded Weight	10873	11207	11106	11453	11114	11460
GVWR	14000	14000	14000	14000	14000	14000
Min Axle Ratio	4.3	4.3	4.3	4.3	4.3	4.3
Max Axle Ratio	4.3	4.3	4.3	4.3	4.3	4.3
Min N/V Ratio	30.1	30.1	30.1	30.1	30.1	30.1
Max N/V Ratio	30.1	30.1	30.1	30.1	30.1	30.1
Emission Vehicle Class	HDV2	HDV2	HDV2	HDV2	HDV2	HDV2
Drive Code	2-Wheel Drive, Rear	2-Wheel Drive, Rear	Part-time 4-Wheel Drive	Part-time 4-Wheel Drive	Part-time 4-Wheel Drive	Part-time 4-Wheel Drive
Trans Type	Semi-Automatic	Semi-Automatic	Semi-Automatic	Semi-Automatic	Semi-Automatic	Semi-Automatic
Calibration Application	50ST	50ST	50ST	50ST	50ST	50ST
Min Tire Size	225/70R19 - 30.1	225/70R19 - 30.1	225/70R19 - 30.1	225/70R19 - 30.1	225/70R19 - 30.1	225/70R19 - 30.1
Max Tire Size	225/70R19 - 30.1	225/70R19 - 30.1	225/70R19 - 30.1	225/70R19 - 30.1	225/70R19 - 30.1	225/70R19 - 30.1
Alt Tire 1						
Alt Tire 2						
Alt Tire 3						
Alt Tire 4						
Alt Tire 5						
Alt Tire 6						
Alt Tire 7						
DAW Full Tank	3432	3786	3605	3943	3605	3942
DAW Empty Tank	3294	3562	3468	3719	3467	3718

Vehicle Description Report

Application: 50ST

Test Group: SFMXD06.771D

ID Number	5262590	5262632	5262686	5262591	5262576	5262564	5262705	5263497
Displacement	6.7	6.7	6.7	6.7	6.7	6.7	6.7	6.7
Cert Code	STFHTRN20102	STFHTRN20102	STFHTRN20102	STFHTRN20102	STFHTRN20102	STFHTRN20102	STFHTRN20102	STFHY3ND0102
Fuel Tank(s)	TV	TU	TU	TU	TU	TZ	TZ	TV
Carline	F250 PICKUP 2WD DIESEL	F250 PICKUP 2WD DIESEL	F250 PICKUP 2WD DIESEL	F250 PICKUP 2WD DIESEL	F250 PICKUP 2WD DIESEL	F250 PICKUP 2WD DIESEL	F250 PICKUP 2WD DIESEL	F250 PICKUP 2WD DIESEL
Wheel Configuration	SINGLE REAR WHEELS	SINGLE REAR WHEELS	SINGLE REAR WHEELS	SINGLE REAR WHEELS	SINGLE REAR WHEELS	SINGLE REAR WHEELS	SINGLE REAR WHEELS	SINGLE REAR WHEELS
Body Style	Regular Cab	Super Cab	Super Cab	Super Crew	Super Crew	Super Crew	Super Crew	Regular Cab
Wheelbase	142.0	164.0	164.0	160.0	160.0	175.5	175.5	142.0
Transcode Combo	ESC	ESC	ESC	ESC	ESC	ESC	ESC	ESC
Curb Weight	6549	6979	7107	6945	7073	7192	7320	6692
ETW	7000	7500	7500	7000	7500	7500	7500	7000
Loaded Weight LVW	6849	7279	7407	7245	7373	7492	7620	6992
ALVW-ETW	8500	9000	9000	9000	9000	9000	9000	8500
Adj. Loaded Weight	8575	8790	9054	8773	8937	8896	9210	8646
GVWR	10600	10600	11000	10600	10800	10600	11100	10600
Min Axle Ratio	3.31	3.31	3.31	3.31	3.31	3.31	3.31	3.31
Max Axle Ratio	3.55	3.31	3.55	3.31	3.55	3.31	3.55	3.55
Min N/V Ratio	23.1	23.1	23.1	23.1	23.1	23.1	23.1	23.1
Max N/V Ratio	24.8	23.1	24.8	23.1	24.8	23.1	24.8	24.8
Emission Vehicle Class	HDV2	HDV2	HDV2	HDV2	HDV2	HDV2	HDV2	HDV2
Drive Code	2-Wheel Drive, Rear	2-Wheel Drive, Rear	2-Wheel Drive, Rear	2-Wheel Drive, Rear	2-Wheel Drive, Rear	2-Wheel Drive, Rear	2-Wheel Drive, Rear	2-Wheel Drive, Rear
Trans Type	Semi-Automatic	Semi-Automatic	Semi-Automatic	Semi-Automatic	Semi-Automatic	Semi-Automatic	Semi-Automatic	Semi-Automatic
Calibration Application	50ST	50ST	50ST	50ST	50ST	50ST	50ST	50ST
Min Tire Size	LT245/75R17 - 23.1	LT245/75R17 - 23.1	LT245/75R17 - 23.1	LT245/75R17 - 23.1	LT245/75R17 - 23.1	LT245/75R17 - 23.1	LT245/75R17 - 23.1	LT245/75R17 - 23.1
Max Tire Size	LT245/75R17 - 24.8	LT245/75R17 - 23.1	LT245/75R17 - 24.8	LT245/75R17 - 23.1	LT245/75R17 - 24.8	LT245/75R17 - 23.1	LT245/75R17 - 24.8	LT245/75R17 - 24.8
Alt Tire 1								
Alt Tire 2								
Alt Tire 3								
Alt Tire 4								
Alt Tire 5								
Alt Tire 6								
Alt Tire 7								
DAW Full Tank	2558	2770	2898	2771	2899	2885	3013	2686
DAW Empty Tank	2420	2598	2726	2601	2729	2660	2788	2548

Vehicle Description Report

Application: 50ST

Test Group: SFMXD06.771D

ID Number	5263498	5263615	5263597	5262558	5262555	5262584	5262563	5262585
Displacement	6.7	6.7	6.7	6.7	6.7	6.7	6.7	6.7
Cert Code	STFHY3ND0102	STFHY3ND0102	STFHY3ND0102	STFHTRN20102	STFHTRN20102	STFHTRN20102	STFHTRN20102	STFHTRN20102
Fuel Tank(s)	TU	TU	TZ	TV	TV	TU	TU	TU
Carline	F250 PICKUP 2WD DIESEL	F250 PICKUP 2WD DIESEL	F250 PICKUP 2WD DIESEL	F250 PICKUP 4WD DIESEL	F250 PICKUP 4WD DIESEL	F250 PICKUP 4WD DIESEL	F250 PICKUP 4WD DIESEL	F250 PICKUP 4WD DIESEL
Wheel Configuration	SINGLE REAR WHEELS	SINGLE REAR WHEELS	SINGLE REAR WHEELS	SINGLE REAR WHEELS	SINGLE REAR WHEELS	SINGLE REAR WHEELS	SINGLE REAR WHEELS	SINGLE REAR WHEELS
Body Style	Super Cab	Super Crew	Super Crew	Regular Cab	Regular Cab	Super Cab	Super Cab	Super Crew
Wheelbase	164.0	160.0	175.5	142.0	142.0	164.0	164.0	160.0
Transcode Combo	ESC	ESC	ESC	ESC	ESC	ESC	ESC	ESC
Curb Weight	7122	7088	7335	7025	7153	7507	7635	7459
ETW	7500	7500	7500	7500	7500	8000	8000	8000
Loaded Weight LVW	7422	7388	7635	7325	7453	7807	7935	7759
ALVW-ETW	9000	9000	9000	9000	9000	9000	9500	9000
Adj. Loaded Weight	9061	8944	9218	8813	9077	9053	9417	9029
GVWR	11000	10800	11100	10600	11000	10600	11200	10600
Min Axle Ratio	3.31	3.31	3.31	3.31	3.31	3.31	3.31	3.31
Max Axle Ratio	3.55	3.55	3.55	3.31	3.55	3.31	3.55	3.31
Min N/V Ratio	23.1	23.1	23.1	21.9	21.9	21.3	21.3	21.3
Max N/V Ratio	24.8	24.8	24.8	23.1	24.8	23.1	24.8	23.1
Emission Vehicle Class	HDV2	HDV2	HDV2	HDV2	HDV2	HDV2	HDV2	HDV2
Drive Code	2-Wheel Drive, Rear	2-Wheel Drive, Rear	2-Wheel Drive, Rear	Part-time 4-Wheel Drive	Part-time 4-Wheel Drive	Part-time 4-Wheel Drive	Part-time 4-Wheel Drive	Part-time 4-Wheel Drive
Trans Type	Semi-Automatic	Semi-Automatic	Semi-Automatic	Semi-Automatic	Semi-Automatic	Semi-Automatic	Semi-Automatic	Semi-Automatic
Calibration Application	50ST	50ST	50ST	50ST	50ST	50ST	50ST	50ST
Min Tire Size	LT245/75R17 - 23.1	LT245/75R17 - 23.1	LT245/75R17 - 23.1	LT245/75R17 - 23.1	LT245/75R17 - 23.1	LT245/75R17 - 23.1	LT245/75R17 - 23.1	LT245/75R17 - 23.1
Max Tire Size	LT245/75R17 - 24.8	LT245/75R17 - 24.8	LT245/75R17 - 24.8	LT285/70R17 - 22.2	LT285/70R17 - 23.8	LT285/70R17 - 22.2	LT285/70R17 - 23.8	LT285/70R17 - 22.2
Alt Tire 1				LT275/70R18 - 21.9	LT285/70R17 - 22.2	LT275/65R18 - 22.7	LT275/70R18 - 21.9	LT275/65R20 - 21.3
Alt Tire 2				LT275/65R18 - 22.7	LT275/70R18 - 23.5	LT275/65R20 - 21.3	LT275/65R18 - 24.3	LT275/70R18 - 21.9
Alt Tire 3					LT275/65R18 - 24.3	LT275/70R18 - 21.9	LT275/65R20 - 21.3	LT275/65R18 - 22.7
Alt Tire 4					LT275/65R18 - 22.7		LT275/65R18 - 22.7	
Alt Tire 5					LT245/75R17 - 24.8		LT245/75R17 - 24.8	
Alt Tire 6					LT275/70R18 - 21.9		LT275/65R20 - 22.9	
Alt Tire 7							LT275/70R18 - 23.5	
DAW Full Tank	2898	2899	3013	2677	2805	2901	3029	2911
DAW Empty Tank	2726	2729	2788	2539	2667	2729	2857	2740

Vehicle Description Report

Application: 50ST

Test Group: SFMXD06.771D

ID Number	5262559	5262589	5262554	5263489	5263482	5263649	5263485	5263487
Displacement	6.7	6.7	6.7	6.7	6.7	6.7	6.7	6.7
Cert Code	STFHTRN20102	STFHTRN20102	STFHTRN20102	STFHY3ND0102	STFHY3ND0102	STFHY3ND0102	STFHY3ND0102	STFHY3ND0102
Fuel Tank(s)	TU	TZ	TZ	TV	TU	TU	TU	TZ
Carline	F250 PICKUP 4WD DIESEL	F250 PICKUP 4WD DIESEL	F250 PICKUP 4WD DIESEL	F250 PICKUP 4WD DIESEL	F250 PICKUP 4WD DIESEL	F250 PICKUP 4WD DIESEL	F250 PICKUP 4WD DIESEL	F250 PICKUP 4WD DIESEL
Wheel Configuration	SINGLE REAR WHEELS	SINGLE REAR WHEELS	SINGLE REAR WHEELS	SINGLE REAR WHEELS	SINGLE REAR WHEELS	SINGLE REAR WHEELS	SINGLE REAR WHEELS	SINGLE REAR WHEELS
Body Style	Super Crew	Super Crew	Super Crew	Regular Cab	Super Cab	Super Crew	Super Crew	Super Crew
Wheelbase	160.0	175.5	175.5	142.0	164.0	160.0	160.0	175.5
Transcode Combo	ESC	ESC	ESC	ESC	ESC	ESC	ESC	ESC
Curb Weight	7587	7783	7911	7168	7650	7503	7602	7926
ETW	8000	8000	8000	7500	8000	8000	8000	8000
Loaded Weight LVW	7887	8083	8211	7468	7950	7803	7902	8226
ALVW-ETW	9500	9000	9500	9000	9500	9500	9500	9500
Adj. Loaded Weight	9343	9191	9555	9084	9525	9252	9351	9663
GVWR	11100	10600	11200	11000	11400	11000	11100	11400
Min Axle Ratio	3.31	3.31	3.31	3.31	3.31	3.55	3.31	3.31
Max Axle Ratio	3.55	3.31	3.55	3.55	3.55	3.55	3.55	3.55
Min N/V Ratio	21.3	21.3	21.3	21.9	21.3	22.4	21.3	21.3
Max N/V Ratio	24.8	23.1	24.8	24.8	24.8	22.4	24.8	24.8
Emission Vehicle Class	HDV2	HDV2	HDV2	HDV2	HDV2	HDV2	HDV2	HDV2
Drive Code	Part-time 4-Wheel Drive	Part-time 4-Wheel Drive	Part-time 4-Wheel Drive	Part-time 4-Wheel Drive	Part-time 4-Wheel Drive	Part-time 4-Wheel Drive	Part-time 4-Wheel Drive	Part-time 4-Wheel Drive
Trans Type	Semi-Automatic	Semi-Automatic	Semi-Automatic	Semi-Automatic	Semi-Automatic	Semi-Automatic	Semi-Automatic	Semi-Automatic
Calibration Application	50ST	50ST	50ST	50ST	50ST	50ST	50ST	50ST
Min Tire Size	LT245/75R17 - 23.1	LT245/75R17 - 23.1	LT245/75R17 - 23.1	LT245/75R17 - 23.1	LT245/75R17 - 23.1	LT285/75R18 - 22.4	LT245/75R17 - 23.1	LT245/75R17 - 23.1
Max Tire Size	LT285/70R17 - 23.8	LT285/70R17 - 22.2	LT285/70R17 - 23.8	LT285/70R17 - 23.8	LT285/70R17 - 23.8	LT285/75R18 - 22.4	LT285/70R17 - 23.8	LT285/70R17 - 23.8
Alt Tire 1	LT275/65R18 - 22.7	LT275/65R20 - 21.3	LT275/65R20 - 22.9	LT285/70R17 - 22.2	LT245/75R17 - 24.8		LT245/75R17 - 24.8	LT275/65R18 - 24.3
Alt Tire 2	LT275/65R18 - 24.3	LT275/70R18 - 21.9	LT275/65R18 - 24.3	LT275/70R18 - 23.5	LT275/65R18 - 24.3		LT275/70R18 - 21.9	LT275/65R18 - 22.7
Alt Tire 3	LT285/70R17 - 22.2	LT275/65R18 - 22.7	LT275/65R18 - 22.7	LT275/65R18 - 24.3	LT275/65R18 - 22.7		LT275/65R20 - 22.9	LT285/70R17 - 22.2
Alt Tire 4	LT275/65R20 - 21.3		LT285/70R17 - 22.2	LT275/65R18 - 22.7	LT275/70R18 - 23.5		LT275/65R20 - 21.3	LT275/70R18 - 23.5
Alt Tire 5	LT275/70R18 - 21.9		LT275/70R18 - 23.5	LT275/70R18 - 21.9	LT285/70R17 - 22.2		LT275/70R18 - 23.5	LT275/70R18 - 21.9
Alt Tire 6	LT275/70R18 - 23.5		LT275/70R18 - 21.9	LT245/75R17 - 24.8	LT275/70R18 - 21.9		LT285/70R17 - 22.2	LT275/65R20 - 21.3
Alt Tire 7	LT245/75R17 - 24.8		LT275/65R20 - 21.3		LT275/65R20 - 21.3		LT275/65R18 - 22.7	LT245/75R17 - 24.8
DAW Full Tank	3039	3016	3144	2805	3029	2980	3039	3144
DAW Empty Tank	2868	2792	2920	2667	2857	2810	2868	2920

Vehicle Description Report

Application: 50ST

Test Group: SFMXD06.771D

ID Number	5262838	5262924	5262882	5262850	5262900	5262894	5262925	5263020
Displacement	6.7	6.7	6.7	6.7	6.7	6.7	6.7	6.7
Cert Code	STFHTRN30102	STFHTRN30102	STFHTRN30102	STFHTRN30102	STFHTRN30102	STFHTRN30102	STFHTRN30102	STFHTRN30102
Fuel Tank(s)	TV	TV	TU	TU	TU	TU	TZ	TZ
Carline	F350 PICKUP 2WD DIESEL	F350 PICKUP 2WD DIESEL	F350 PICKUP 2WD DIESEL	F350 PICKUP 2WD DIESEL	F350 PICKUP 2WD DIESEL	F350 PICKUP 2WD DIESEL	F350 PICKUP 2WD DIESEL	F350 PICKUP 2WD DIESEL
Wheel Configuration	SINGLE REAR WHEELS	SINGLE REAR WHEELS	SINGLE REAR WHEELS	SINGLE REAR WHEELS	SINGLE REAR WHEELS	SINGLE REAR WHEELS	SINGLE REAR WHEELS	SINGLE REAR WHEELS
Body Style	Regular Cab	Regular Cab	Super Cab	Super Cab	Super Crew	Super Crew	Super Crew	Super Crew
Wheelbase	142.0	142.0	164.0	164.0	160.0	160.0	175.5	175.5
Transcode Combo	ESC	ESC	ESC	ESC	ESC	ESC	ESC	ESC
Curb Weight	6623	6681	7077	7135	7061	7119	7298	7356
ETW	7000	7000	7500	7500	7500	7500	7500	7500
Loaded Weight LVW	6923	6981	7377	7435	7361	7419	7598	7656
ALVW-ETW	8500	9000	9000	9500	9000	9000	9000	9500
Adj. Loaded Weight	8611	8890	9038	9317	8930	9209	9199	9427
GVWR	10600	11100	11000	11499	10800	11300	11100	11499
Min Axle Ratio	3.31	3.31	3.31	3.31	3.31	3.31	3.31	3.31
Max Axle Ratio	3.55	3.55	3.55	3.55	3.55	3.55	3.55	3.55
Min N/V Ratio	23.1	22.7	23.1	22.7	23.1	22.7	23.1	22.7
Max N/V Ratio	24.8	24.3	24.8	24.3	24.8	24.3	24.8	24.3
Emission Vehicle Class	HDV2	HDV2	HDV2	HDV2	HDV2	HDV2	HDV2	HDV2
Drive Code	2-Wheel Drive, Rear	2-Wheel Drive, Rear	2-Wheel Drive, Rear	2-Wheel Drive, Rear	2-Wheel Drive, Rear	2-Wheel Drive, Rear	2-Wheel Drive, Rear	2-Wheel Drive, Rear
Trans Type	Semi-Automatic	Semi-Automatic	Semi-Automatic	Semi-Automatic	Semi-Automatic	Semi-Automatic	Semi-Automatic	Semi-Automatic
Calibration Application	50ST	50ST	50ST	50ST	50ST	50ST	50ST	50ST
Min Tire Size	LT245/75R17 - 23.1	LT275/65R18 - 22.7	LT245/75R17 - 23.1	LT275/65R18 - 22.7	LT245/75R17 - 23.1	LT275/65R18 - 22.7	LT245/75R17 - 23.1	LT275/65R18 - 22.7
Max Tire Size	LT245/75R17 - 24.8	LT275/65R18 - 24.3	LT245/75R17 - 24.8	LT275/65R18 - 24.3	LT245/75R17 - 24.8	LT275/65R18 - 24.3	LT245/75R17 - 24.8	LT275/65R18 - 24.3
Alt Tire 1								
Alt Tire 2								
Alt Tire 3								
Alt Tire 4								
Alt Tire 5								
Alt Tire 6								
Alt Tire 7								
DAW Full Tank	2701	2738	2903	2940	2921	2958	2994	3031
DAW Empty Tank	2563	2600	2730	2767	2750	2787	2770	2807

Vehicle Description Report

Application: 50ST

Test Group: SFMXD06.771D

ID Number	5263180	5263390	5263450	5263434	5263496	5263508	5263660	5263696
Displacement	6.7	6.7	6.7	6.7	6.7	6.7	6.7	6.7
Cert Code	STFHTRN40102	STFHTRN40102	STFHTRN50102	STFHTRN50102	STFHY3ND0102	STFHY3ND0102	STFHY3ND0102	STFHY3ND0102
Fuel Tank(s)	TV	TZ	TV	TZ	TV	TV	TU	TU
Carline	F350 PICKUP 2WD DIESEL	F350 PICKUP 2WD DIESEL	F350 PICKUP 2WD DIESEL	F350 PICKUP 2WD DIESEL	F350 PICKUP 2WD DIESEL	F350 PICKUP 2WD DIESEL	F350 PICKUP 2WD DIESEL	F350 PICKUP 2WD DIESEL
Wheel Configuration	DUAL REAR WHEELS	DUAL REAR WHEELS	DUAL REAR WHEELS	DUAL REAR WHEELS	SINGLE REAR WHEELS	SINGLE REAR WHEELS	SINGLE REAR WHEELS	SINGLE REAR WHEELS
Body Style	Regular Cab	Super Crew	Regular Cab	Super Crew	Regular Cab	Regular Cab	Super Cab	Super Cab
Wheelbase	142.0	175.5	142.0	175.5	142.0	142.0	164.0	164.0
Transcode Combo	ESC	ESC	ESC	ESC	ESC	ESC	ESC	ESC
Curb Weight	7186	7857	7186	7857	6638	6696	7092	7150
ETW	7500	8000	7500	8000	7000	7000	7500	7500
Loaded Weight LVW	7486	8157	7486	8157	6938	6996	7392	7450
ALVW-ETW	10500	11000	10500	11000	8500	9000	9000	9500
Adj. Loaded Weight	10593	10928	10593	10928	8619	8898	9046	9324
GVWR	14000	14000	14000	14000	10600	11100	11000	11499
Min Axle Ratio	3.55	3.55	4.1	4.1	3.31	3.31	3.55	3.55
Max Axle Ratio	3.55	3.55	4.1	4.1	3.55	3.55	3.55	3.55
Min N/V Ratio	24.8	24.8	28.6	28.6	23.1	22.7	24.8	24.3
Max N/V Ratio	24.8	24.8	28.6	28.6	24.8	24.3	24.8	24.3
Emission Vehicle Class	HDV2	HDV2	HDV2	HDV2	HDV2	HDV2	HDV2	HDV2
Drive Code	2-Wheel Drive, Rear	2-Wheel Drive, Rear	2-Wheel Drive, Rear	2-Wheel Drive, Rear	2-Wheel Drive, Rear	2-Wheel Drive, Rear	2-Wheel Drive, Rear	2-Wheel Drive, Rear
Trans Type	Semi-Automatic	Semi-Automatic	Semi-Automatic	Semi-Automatic	Semi-Automatic	Semi-Automatic	Semi-Automatic	Semi-Automatic
Calibration Application	50ST	50ST	50ST	50ST	50ST	50ST	50ST	50ST
Min Tire Size	LT245/75R17 - 24.8	LT245/75R17 - 24.8	LT245/75R17 - 28.6	LT245/75R17 - 28.6	LT245/75R17 - 23.1	LT275/65R18 - 22.7	LT245/75R17 - 24.8	LT275/65R18 - 24.3
Max Tire Size	LT245/75R17 - 24.8	LT245/75R17 - 24.8	LT245/75R17 - 28.6	LT245/75R17 - 28.6	LT245/75R17 - 24.8	LT275/65R18 - 24.3	LT245/75R17 - 24.8	LT275/65R18 - 24.3
Alt Tire 1								
Alt Tire 2								
Alt Tire 3								
Alt Tire 4								
Alt Tire 5								
Alt Tire 6								
Alt Tire 7								
DAW Full Tank	3051	3437	3051	3437	2700	2737	2898	2935
DAW Empty Tank	2914	3213	2914	3213	2563	2600	2725	2762

Vehicle Description Report

Application: 50ST

Test Group: SFMXD06.771D

ID Number	5263522	5263602	5263813	5263876	5264095	5264102	5262820	5262869
Displacement	6.7	6.7	6.7	6.7	6.7	6.7	6.7	6.7
Cert Code	STFHY3ND0102	STFHY3ND0102	STFHY3NS0102	STFHY3NS0102	STFHY3NT0102	STFHY3NT0102	STFHTRN30102	STFHTRN30102
Fuel Tank(s)	TZ	TZ	TV	TZ	TV	TZ	TV	TV
Carline	F350 PICKUP 2WD DIESEL	F350 PICKUP 2WD DIESEL	F350 PICKUP 2WD DIESEL	F350 PICKUP 2WD DIESEL	F350 PICKUP 2WD DIESEL	F350 PICKUP 2WD DIESEL	F350 PICKUP 4WD DIESEL	F350 PICKUP 4WD DIESEL
Wheel Configuration	SINGLE REAR WHEELS	SINGLE REAR WHEELS	DUAL REAR WHEELS	DUAL REAR WHEELS	DUAL REAR WHEELS	DUAL REAR WHEELS	SINGLE REAR WHEELS	SINGLE REAR WHEELS
Body Style	Super Crew	Super Crew	Regular Cab	Super Crew	Regular Cab	Super Crew	Regular Cab	Regular Cab
Wheelbase	175.5	175.5	142.0	175.5	142.0	175.5	142.0	142.0
Transcode Combo	ESC	ESC	ESC	ESC	ESC	ESC	ESC	ESC
Curb Weight	7283	7341	7202	7871	7202	7871	7234	7292
ETW	7500	7500	7500	8000	7500	8000	7500	7500
Loaded Weight LVW	7583	7641	7502	8171	7502	8171	7534	7592
ALVW-ETW	9000	9500	10500	11000	10500	11000	9000	9500
Adj. Loaded Weight	9191	9420	10601	10935	10601	10935	9117	9396
GVWR	11100	11499	14000	14000	14000	14000	11000	11499
Min Axle Ratio	3.31	3.31	3.55	3.55	4.1	4.1	3.31	3.31
Max Axle Ratio	3.55	3.55	3.55	3.55	4.1	4.1	3.55	3.55
Min N/V Ratio	23.1	22.7	24.8	24.8	28.6	28.6	22.2	22.7
Max N/V Ratio	24.8	24.3	24.8	24.8	28.6	28.6	24.8	24.3
Emission Vehicle Class	HDV2	HDV2	HDV2	HDV2	HDV2	HDV2	HDV2	HDV2
Drive Code	2-Wheel Drive, Rear	2-Wheel Drive, Rear	2-Wheel Drive, Rear	2-Wheel Drive, Rear	2-Wheel Drive, Rear	2-Wheel Drive, Rear	Part-time 4-Wheel Drive	Part-time 4-Wheel Drive
Trans Type	Semi-Automatic	Semi-Automatic	Semi-Automatic	Semi-Automatic	Semi-Automatic	Semi-Automatic	Semi-Automatic	Semi-Automatic
Calibration Application	50ST	50ST	50ST	50ST	50ST	50ST	50ST	50ST
Min Tire Size	LT245/75R17 - 23.1	LT275/65R18 - 22.7	LT245/75R17 - 24.8	LT245/75R17 - 24.8	LT245/75R17 - 28.6	LT245/75R17 - 28.6	LT245/75R17 - 23.1	LT275/65R18 - 22.7
Max Tire Size	LT245/75R17 - 24.8	LT275/65R18 - 24.3	LT245/75R17 - 24.8	LT245/75R17 - 24.8	LT245/75R17 - 28.6	LT245/75R17 - 28.6	LT285/70R17 - 23.8	LT275/65R18 - 24.3
Alt Tire 1							LT285/70R17 - 22.2	
Alt Tire 2							LT245/75R17 - 24.8	
Alt Tire 3								
Alt Tire 4								
Alt Tire 5								
Alt Tire 6								
Alt Tire 7								
DAW Full Tank	2984	3021	3052	3427	3052	3427	2849	2886
DAW Empty Tank	2760	2797	2914	3203	2914	3203	2711	2748

Vehicle Description Report

Application: 50ST

Test Group: SFMXD06.771D

ID Number	5262945	5262862	5262828	5262954	5262843	5262835	5262834	5262859
Displacement	6.7	6.7	6.7	6.7	6.7	6.7	6.7	6.7
Cert Code	STFHTRN30102	STFHTRN30102	STFHTRN30102	STFHTRN30102	STFHTRN30102	STFHTRN30102	STFHTRN30102	STFHTRN30102
Fuel Tank(s)	TV	TU	TU	TU	TU	TU	TU	TZ
Carline	F350 PICKUP 4WD DIESEL	F350 PICKUP 4WD DIESEL	F350 PICKUP 4WD DIESEL	F350 PICKUP 4WD DIESEL	F350 PICKUP 4WD DIESEL	F350 PICKUP 4WD DIESEL	F350 PICKUP 4WD DIESEL	F350 PICKUP 4WD DIESEL
Wheel Configuration	SINGLE REAR WHEELS	SINGLE REAR WHEELS	SINGLE REAR WHEELS	SINGLE REAR WHEELS	SINGLE REAR WHEELS	SINGLE REAR WHEELS	SINGLE REAR WHEELS	SINGLE REAR WHEELS
Body Style	Regular Cab	Super Cab	Super Cab	Super Cab	Super Crew	Super Crew	Super Crew	Super Crew
Wheelbase	142.0	164.0	164.0	164.0	160.0	160.0	160.0	175.5
Transcode Combo	ESC	ESC	ESC	ESC	ESC	ESC	ESC	ESC
Curb Weight	7297	7741	7799	7804	7774	7832	7837	8021
ETW	7500	8000	8000	8000	8000	8000	8000	8500
Loaded Weight LVW	7597	8041	8099	8104	8074	8132	8137	8321
ALVW-ETW	9500	9500	9500	10000	9500	9500	10000	10000
Adj. Loaded Weight	9649	9520	9649	10052	9487	9665	9918	9760
GVWR	12000	11300	11499	12300	11200	11499	12000	11499
Min Axle Ratio	3.31	3.31	3.31	3.31	3.31	3.31	3.31	3.31
Max Axle Ratio	3.55	3.55	3.55	3.55	3.55	3.55	3.55	3.55
Min N/V Ratio	21.9	22.2	22.7	21.3	22.2	22.7	21.3	22.2
Max N/V Ratio	23.5	24.8	24.3	23.5	24.8	24.3	23.5	24.8
Emission Vehicle Class	HDV2	HDV2	HDV2	HDV2	HDV2	HDV2	HDV2	HDV2
Drive Code	Part-time 4-Wheel Drive	Part-time 4-Wheel Drive	Part-time 4-Wheel Drive	Part-time 4-Wheel Drive	Part-time 4-Wheel Drive	Part-time 4-Wheel Drive	Part-time 4-Wheel Drive	Part-time 4-Wheel Drive
Trans Type	Semi-Automatic	Semi-Automatic	Semi-Automatic	Semi-Automatic	Semi-Automatic	Semi-Automatic	Semi-Automatic	Semi-Automatic
Calibration Application	50ST	50ST	50ST	50ST	50ST	50ST	50ST	50ST
Min Tire Size	LT275/70R18 - 21.9	LT245/75R17 - 23.1	LT275/65R18 - 22.7	LT275/65R20 - 21.3	LT245/75R17 - 23.1	LT275/65R18 - 22.7	LT275/65R20 - 21.3	LT245/75R17 - 23.1
Max Tire Size	LT275/70R18 - 23.5	LT285/70R17 - 23.8	LT275/65R18 - 24.3	LT275/70R18 - 23.5	LT285/70R17 - 23.8	LT275/65R18 - 24.3	LT275/70R18 - 23.5	LT285/70R17 - 23.8
Alt Tire 1		LT285/70R17 - 22.2		LT275/70R18 - 21.9	LT245/75R17 - 24.8		LT275/65R20 - 22.9	LT285/70R17 - 22.2
Alt Tire 2		LT245/75R17 - 24.8		LT275/65R20 - 22.9	LT285/70R17 - 22.2		LT275/70R18 - 21.9	LT245/75R17 - 24.8
Alt Tire 3								
Alt Tire 4								
Alt Tire 5								
Alt Tire 6								
Alt Tire 7								
DAW Full Tank	2888	3146	3183	3185	3166	3203	3205	3267
DAW Empty Tank	2750	2973	3010	3012	2995	3032	3034	3043

Vehicle Description Report

Application: 50ST

Test Group: SFMXD06.771D

ID Number	5262941	5262829	5263173	5263125	5263436	5263445	5263486	5263697
Displacement	6.7	6.7	6.7	6.7	6.7	6.7	6.7	6.7
Cert Code	STFHTRN30102	STFHTRN30102	STFHTRN40102	STFHTRN40102	STFHTRN50102	STFHTRN50102	STFHY3ND0102	STFHY3ND0102
Fuel Tank(s)	TZ	TZ	TV	TZ	TV	TZ	TV	TV
Carline	F350 PICKUP 4WD DIESEL	F350 PICKUP 4WD DIESEL	F350 PICKUP 4WD DIESEL	F350 PICKUP 4WD DIESEL	F350 PICKUP 4WD DIESEL	F350 PICKUP 4WD DIESEL	F350 PICKUP 4WD DIESEL	F350 PICKUP 4WD DIESEL
Wheel Configuration	SINGLE REAR WHEELS	SINGLE REAR WHEELS	DUAL REAR WHEELS	DUAL REAR WHEELS	DUAL REAR WHEELS	DUAL REAR WHEELS	SINGLE REAR WHEELS	SINGLE REAR WHEELS
Body Style	Super Crew	Super Crew	Regular Cab	Super Crew	Regular Cab	Super Crew	Regular Cab	Regular Cab
Wheelbase	175.5	175.5	142.0	175.5	142.0	175.5	142.0	142.0
Transcode Combo	ESC	ESC	ESC	ESC	ESC	ESC	ESC	ESC
Curb Weight	8079	8084	7613	8302	7613	8302	7249	7307
ETW	8500	8500	8000	8500	8000	8500	7500	7500
Loaded Weight LVW	8379	8384	7913	8602	7913	8602	7549	7607
ALVW-ETW	10000	10000	11000	11000	11000	11000	9000	9500
Adj. Loaded Weight	10039	10242	10806	11151	10806	11151	9125	9403
GVWR	12000	12400	14000	14000	14000	14000	11000	11499
Min Axle Ratio	3.31	3.31	3.55	3.55	4.1	4.1	3.31	3.31
Max Axle Ratio	3.55	3.55	3.55	3.55	4.1	4.1	3.55	3.55
Min N/V Ratio	22.7	21.3	24.8	24.8	28.6	28.6	22.2	22.7
Max N/V Ratio	24.3	23.5	24.8	24.8	28.6	28.6	24.8	24.3
Emission Vehicle Class	HDV2	HDV2	HDV2	HDV2	HDV2	HDV2	HDV2	HDV2
Drive Code	Part-time 4-Wheel Drive	Part-time 4-Wheel Drive	Part-time 4-Wheel Drive	Part-time 4-Wheel Drive	Part-time 4-Wheel Drive	Part-time 4-Wheel Drive	Part-time 4-Wheel Drive	Part-time 4-Wheel Drive
Trans Type	Semi-Automatic	Semi-Automatic	Semi-Automatic	Semi-Automatic	Semi-Automatic	Semi-Automatic	Semi-Automatic	Semi-Automatic
Calibration Application	50ST	50ST	50ST	50ST	50ST	50ST	50ST	50ST
Min Tire Size	LT275/65R18 - 22.7	LT275/65R20 - 21.3	LT245/75R17 - 24.8	LT245/75R17 - 24.8	LT245/75R17 - 28.6	LT245/75R17 - 28.6	LT245/75R17 - 23.1	LT275/65R18 - 22.7
Max Tire Size	LT275/65R18 - 24.3	LT275/70R18 - 23.5	LT245/75R17 - 24.8	LT245/75R17 - 24.8	LT245/75R17 - 28.6	LT245/75R17 - 28.6	LT285/70R17 - 23.8	LT275/65R18 - 24.3
Alt Tire 1		LT275/65R20 - 22.9					LT245/75R17 - 24.8	
Alt Tire 2		LT275/70R18 - 21.9					LT285/70R17 - 22.2	
Alt Tire 3								
Alt Tire 4								
Alt Tire 5								
Alt Tire 6								
Alt Tire 7								
DAW Full Tank	3304	3306	3229	3556	3229	3556	2848	2885
DAW Empty Tank	3080	3082	3091	3332	3091	3332	2711	2748

Vehicle Description Report

Application: 50ST

Test Group: SFMXD06.771D

ID Number	5263519	5263481	5263552	5263565	5263484	5263540	5263500	5263521
Displacement	6.7	6.7	6.7	6.7	6.7	6.7	6.7	6.7
Cert Code	STFHY3ND0102	STFHY3ND0102	STFHY3ND0102	STFHY3ND0102	STFHY3ND0102	STFHY3ND0102	STFHY3ND0102	STFHY3ND0102
Fuel Tank(s)	TV	TU	TU	TU	TU	TU	TU	TZ
Carline	F350 PICKUP 4WD DIESEL	F350 PICKUP 4WD DIESEL	F350 PICKUP 4WD DIESEL	F350 PICKUP 4WD DIESEL	F350 PICKUP 4WD DIESEL	F350 PICKUP 4WD DIESEL	F350 PICKUP 4WD DIESEL	F350 PICKUP 4WD DIESEL
Wheel Configuration	SINGLE REAR WHEELS	SINGLE REAR WHEELS	SINGLE REAR WHEELS	SINGLE REAR WHEELS	SINGLE REAR WHEELS	SINGLE REAR WHEELS	SINGLE REAR WHEELS	SINGLE REAR WHEELS
Body Style	Regular Cab	Super Cab	Super Cab	Super Cab	Super Crew	Super Crew	Super Crew	Super Crew
Wheelbase	142.0	164.0	164.0	164.0	160.0	160.0	160.0	175.5
Transcode Combo	ESC	ESC	ESC	ESC	ESC	ESC	ESC	ESC
Curb Weight	7312	7772	7830	7835	7789	7847	7852	8036
ETW	7500	8000	8000	8000	8000	8000	8000	8500
Loaded Weight LVW	7612	8072	8130	8135	8089	8147	8152	8336
ALVW-ETW	9500	9500	9500	10000	9500	9500	10000	10000
Adj. Loaded Weight	9656	9536	9664	10067	9494	9673	9926	9767
GVWR	12000	11300	11499	12300	11200	11499	12000	11499
Min Axle Ratio	3.31	3.31	3.31	3.31	3.31	3.31	3.31	3.31
Max Axle Ratio	3.55	3.55	3.55	3.55	3.55	3.55	3.55	3.55
Min N/V Ratio	21.9	22.2	22.7	21.3	22.2	22.7	21.3	22.2
Max N/V Ratio	23.5	24.8	24.3	23.5	24.8	24.3	23.5	24.8
Emission Vehicle Class	HDV2	HDV2	HDV2	HDV2	HDV2	HDV2	HDV2	HDV2
Drive Code	Part-time 4-Wheel Drive	Part-time 4-Wheel Drive	Part-time 4-Wheel Drive	Part-time 4-Wheel Drive	Part-time 4-Wheel Drive	Part-time 4-Wheel Drive	Part-time 4-Wheel Drive	Part-time 4-Wheel Drive
Trans Type	Semi-Automatic	Semi-Automatic	Semi-Automatic	Semi-Automatic	Semi-Automatic	Semi-Automatic	Semi-Automatic	Semi-Automatic
Calibration Application	50ST	50ST	50ST	50ST	50ST	50ST	50ST	50ST
Min Tire Size	LT275/70R18 - 21.9	LT245/75R17 - 23.1	LT275/65R18 - 22.7	LT275/65R20 - 21.3	LT245/75R17 - 23.1	LT275/65R18 - 22.7	LT275/65R20 - 21.3	LT245/75R17 - 23.1
Max Tire Size	LT275/70R18 - 23.5	LT285/70R17 - 23.8	LT275/65R18 - 24.3	LT275/70R18 - 23.5	LT285/70R17 - 23.8	LT275/65R18 - 24.3	LT285/75R18 - 22.4	LT285/70R17 - 23.8
Alt Tire 1		LT285/70R17 - 22.2		LT275/70R18 - 21.9	LT285/70R17 - 22.2		LT275/70R18 - 21.9	LT245/75R17 - 24.8
Alt Tire 2		LT245/75R17 - 24.8		LT275/65R20 - 22.9	LT245/75R17 - 24.8		LT275/65R20 - 22.9	LT285/70R17 - 22.2
Alt Tire 3							LT275/70R18 - 23.5	
Alt Tire 4								
Alt Tire 5								
Alt Tire 6								
Alt Tire 7								
DAW Full Tank	2887	3146	3183	3185	3165	3202	3204	3266
DAW Empty Tank	2750	2974	3011	3013	2994	3031	3033	3042

Vehicle Description Report

Application: 50ST

Test Group: SFMXD06.771D

ID Number	5263557	5263558	5263849	5263919	5264103	5264096	5263471	5263465
Displacement	6.7	6.7	6.7	6.7	6.7	6.7	6.7	6.7
Cert Code	STFHY3ND0102	STFHY3ND0102	STFHY3NS0102	STFHY3NS0102	STFHY3NT0102	STFHY3NT0102	STFHTRN60102	STFHTRN60102
Fuel Tank(s)	TZ	TZ	TV	TZ	TV	TZ	TV	TZ
Carline	F350 PICKUP 4WD DIESEL	F350 PICKUP 4WD DIESEL	F350 PICKUP 4WD DIESEL	F350 PICKUP 4WD DIESEL	F350 PICKUP 4WD DIESEL	F350 PICKUP 4WD DIESEL	F450 PICKUP 2WD DIESEL	F450 PICKUP 2WD DIESEL
Wheel Configuration	SINGLE REAR WHEELS	SINGLE REAR WHEELS	DUAL REAR WHEELS	DUAL REAR WHEELS	DUAL REAR WHEELS	DUAL REAR WHEELS	DUAL REAR WHEELS	DUAL REAR WHEELS
Body Style	Super Crew	Super Crew	Regular Cab	Super Crew	Regular Cab	Super Crew	Regular Cab	Super Crew
Wheelbase	175.5	175.5	142.0	175.5	142.0	175.5	142.0	175.5
Transcode Combo	ESC	ESC	ESC	ESC	ESC	ESC	ESC	ESC
Curb Weight	8094	8099	7628	8317	7628	8317	7730	8399
ETW	8500	8500	8000	8500	8000	8500	8000	8500
Loaded Weight LVW	8394	8399	7928	8617	7928	8617	8030	8699
ALVW-ETW	10000	10000	11000	11000	11000	11000	11000	11000
Adj. Loaded Weight	10047	10249	10814	11159	10814	11159	10865	11200
GVWR	12000	12400	14000	14000	14000	14000	14000	14000
Min Axle Ratio	3.31	3.31	3.55	3.55	4.1	4.1	4.3	4.3
Max Axle Ratio	3.55	3.55	3.55	3.55	4.1	4.1	4.3	4.3
Min N/V Ratio	22.7	21.3	24.8	24.8	28.6	28.6	30.1	30.1
Max N/V Ratio	24.3	23.5	24.8	24.8	28.6	28.6	30.1	30.1
Emission Vehicle Class	HDV2	HDV2	HDV2	HDV2	HDV2	HDV2	HDV2	HDV2
Drive Code	Part-time 4-Wheel Drive	Part-time 4-Wheel Drive	Part-time 4-Wheel Drive	Part-time 4-Wheel Drive	Part-time 4-Wheel Drive	Part-time 4-Wheel Drive	2-Wheel Drive, Rear	2-Wheel Drive, Rear
Trans Type	Semi-Automatic	Semi-Automatic	Semi-Automatic	Semi-Automatic	Semi-Automatic	Semi-Automatic	Semi-Automatic	Semi-Automatic
Calibration Application	50ST	50ST	50ST	50ST	50ST	50ST	50ST	50ST
Min Tire Size	LT275/65R18 - 22.7	LT275/65R20 - 21.3	LT245/75R17 - 24.8	LT245/75R17 - 24.8	LT245/75R17 - 28.6	LT245/75R17 - 28.6	225/70R19 - 30.1	225/70R19 - 30.1
Max Tire Size	LT275/65R18 - 24.3	LT275/70R18 - 23.5	LT245/75R17 - 24.8	LT245/75R17 - 24.8	LT245/75R17 - 28.6	LT245/75R17 - 28.6	225/70R19 - 30.1	225/70R19 - 30.1
Alt Tire 1		LT275/70R18 - 21.9						
Alt Tire 2		LT275/65R20 - 22.9						
Alt Tire 3								
Alt Tire 4								
Alt Tire 5								
Alt Tire 6								
Alt Tire 7								
DAW Full Tank	3303	3305	3228	3556	3228	3556	3381	3787
DAW Empty Tank	3079	3081	3090	3332	3090	3332	3244	3562

Vehicle Description Report

Application: 50ST

Test Group: SFMXD06.771D

ID Number	5264122	5264141	5263478	5263457	5264142	5264136
Displacement	6.7	6.7	6.7	6.7	6.7	6.7
Cert Code	STFHY3NX0102	STFHY3NX0102	STFHTRN60102	STFHTRN60102	STFHY3NX0102	STFHY3NX0102
Fuel Tank(s)	TV	TZ	TV	TZ	TV	TZ
Carline	F450 PICKUP 2WD DIESEL	F450 PICKUP 2WD DIESEL	F450 PICKUP 4WD DIESEL	F450 PICKUP 4WD DIESEL	F450 PICKUP 4WD DIESEL	F450 PICKUP 4WD DIESEL
Wheel Configuration	DUAL REAR WHEELS	DUAL REAR WHEELS	DUAL REAR WHEELS	DUAL REAR WHEELS	DUAL REAR WHEELS	DUAL REAR WHEELS
Body Style	Regular Cab	Super Crew	Regular Cab	Super Crew	Regular Cab	Super Crew
Wheelbase	142.0	175.5	142.0	175.5	142.0	175.5
Transcode Combo	ESC	ESC	ESC	ESC	ESC	ESC
Curb Weight	7746	8414	8213	8906	8228	8921
ETW	8000	8500	8500	9000	8500	9000
Loaded Weight LVW	8046	8714	8513	9206	8528	9221
ALVW-ETW	11000	11000	11000	11500	11000	11500
Adj. Loaded Weight	10873	11207	11106	11453	11114	11460
GVWR	14000	14000	14000	14000	14000	14000
Min Axle Ratio	4.3	4.3	4.3	4.3	4.3	4.3
Max Axle Ratio	4.3	4.3	4.3	4.3	4.3	4.3
Min N/V Ratio	30.1	30.1	30.1	30.1	30.1	30.1
Max N/V Ratio	30.1	30.1	30.1	30.1	30.1	30.1
Emission Vehicle Class	HDV2	HDV2	HDV2	HDV2	HDV2	HDV2
Drive Code	2-Wheel Drive, Rear	2-Wheel Drive, Rear	Part-time 4-Wheel Drive	Part-time 4-Wheel Drive	Part-time 4-Wheel Drive	Part-time 4-Wheel Drive
Trans Type	Semi-Automatic	Semi-Automatic	Semi-Automatic	Semi-Automatic	Semi-Automatic	Semi-Automatic
Calibration Application	50ST	50ST	50ST	50ST	50ST	50ST
Min Tire Size	225/70R19 - 30.1	225/70R19 - 30.1	225/70R19 - 30.1	225/70R19 - 30.1	225/70R19 - 30.1	225/70R19 - 30.1
Max Tire Size	225/70R19 - 30.1	225/70R19 - 30.1	225/70R19 - 30.1	225/70R19 - 30.1	225/70R19 - 30.1	225/70R19 - 30.1
Alt Tire 1						
Alt Tire 2						
Alt Tire 3						
Alt Tire 4						
Alt Tire 5						
Alt Tire 6						
Alt Tire 7						
DAW Full Tank	3432	3786	3605	3943	3605	3942
DAW Empty Tank	3294	3562	3468	3719	3467	3718

SECTION 14

Request for Certification

Vehicle Homologation and Compliance
Environmental & Safety Compliance

Allen Park Test Laboratory
1500 Enterprise Drive, Suite 3W-200
Allen Park, Michigan 48101

August 27, 2024

Mr. Tristin Rojeck
Certification Division
Mobile Source Pollution Control
U. S. Environmental Protection Agency
2000 Traverwood Drive
Ann Arbor, Michigan 48105

Dear Mr. Rojeck:

Ford Motor Company (Ford) herewith submits its Part I Application for Certification for 2025 model year diesel-powered heavy-duty (HDVs) contained in Ford's 50 state test group SFMXD06.771D. We have elected to optionally certify these vehicles on a chassis dynamometer, as allowed under 40 CFR 86.1863-07. The test fuel used is Federal ultra-low sulfur diesel.

The EPA Final Tier 3 certification and in-use exhaust emission standards applicable to this test group are:

Certification & In-Use FTP Standards (g/mi)	**Useful Life**	**NMOG+NOx**	**CO**	**HCHO**	**N2O**	**CH4**	**PM**
HDV (10,001-14,000 lb GVWR) Tier 3 Bin 230	150K	0.230	4.2	0.006	0.15*	0.05	0.010

*Declared Standard

Certification & In-Use SFTP Standards (g/mi)	**Useful Life**	**NMOG+NOx**	**CO**	**PM**
HDV (8,501-10,000 lb GVWR) Tier 3 Bin 230	150K	0.350	4	0.007

Based on Ford Motor Company's good engineering judgment, all the vehicles described in this Application are designed to comply with the applicable full useful life standards, as described above.

This Part I Application for Certification has been prepared in accordance with the standardized format recommended by EPA via its mail out # CD-14-19 (LDV/LDT/ICI/LIMO), subject: "Certification Application Reporting Guidance", dated November 24, 2014. Therefore, in accordance with the provisions of 40 CFR 86.1844-01(d)(14) including the provisions of 40 CFR Parts 85, 86 and 600, Ford requests that a Certificate of Conformity be issued for the HDV test group listed in this Application for Certification.

Please contact Edward Fredericks at 313-805-6647 if you have any questions regarding this submission.

Sincerely,

DocuSigned by:

Lawrence H. Merritt, Jr.

DF6ED4749EAC46B...

Lawrence H. Merritt, Jr.
Manager, Emissions Certification,
Homologation & Compliance

Vehicle Homologation and Compliance
Environmental & Safety Compliance

Allen Park Test Laboratory
1500 Enterprise Drive, Suite 3W-200
Allen Park, Michigan 48101

August 27, 2024

Ms. Robin U. Lang, Chief
Emissions Certification and Compliance Division
California Air Resources Board
4001 Iowa Ave.
Riverside, CA 92507

Dear Ms. Lang:

Ford Motor Company (Ford) herewith submits its Part I Application for Certification for 2025 model year diesel-powered medium-duty vehicles (MDVs) contained in Ford's 50 state test group SFMXD06.771D. The test fuel used is Federal ultra-low sulfur diesel

The FTP certification and in-use standards applicable to this test group for vehicles offered in California are as follows:

Certification & In-Use FTP Standards (g/mi)	Useful Life	NMOG+NOx	CO	HCHO	PM
LEVIII ULEV230	150K	0.230	4.2	0.006	0.010

Certification & In-Use SFTP Standards (g/mi)	Useful Life	NMOG+NOx	CO	PM
LEVIII ULEV230	150K	0.350	4	0.007

Based on Ford Motor Company's good engineering judgment, all the vehicles described in this Application are designed to comply with the applicable intermediate and full useful life standards, as described above.

This Part I Application for Certification has been prepared in accordance with the standardized format recommended by EPA via its mail out # CD-14-19 (LDV/LDT/ICI/LIMO), subject: "Certification Application Reporting Guidance", dated November 24, 2014. This Application has also been prepared in accordance with the California Air Resources Board, Final Regulation Order, Amendments to Sections 1960.1, 1960.5, 1961, and 1962 Title 13, California Code of Regulations (As Amended August 4, 2005). Therefore, in accordance with the provisions of 40 CFR 86.1844-01(d)(14), Ford requests that an Executive Order be issued for the MDV test group listed in this Application for Certification.

Additionally, Ford Motor Company is requesting the Air Resources Board approve the following Partial Carryover Application for SFMXD06.771D based on Partial Carryover data from PFMXD06.771D and Executive Order number A-010-2473-1. By signing this letter, Ford Motor Company is certifying that this model year's application package:

1. Includes no change of the emission standards/FELs, regulation requirements, emission characteristics of the engine, or test procedures requirements.

2. The 2025 application package differs from the 2023 application package only by:

☒ Model year
☒ Test Group/Engine/Vehicle/Evaporative family name (typically the first character)
☐ Manufacturer contact information
☒ Projected sales data
☐ Model information (may only add models if the certification emission levels are not changed)
☒ Part numbers (durable to full useful life and no impact on certification emission levels)
☐ Equipment types (i.e. crane, dozer, generator, etc.)

3. All other information in the 2025 application package is identical to the 2023 application package (incorporates all approved running changes to date).

The application package is complete and named correctly using the appropriate Document Management System (DMS) file and workflow naming conventions and submitted using the correct workflow process. Please contact Edward Fredericks at 313-805-6647, if you have any questions regarding this submission.

Sincerely,

DocuSigned by:
Lawrence H. Merritt, Jr.
DF6ED4749EAC46B...

Lawrence H. Merritt, Jr.
Manager, Emissions Certification,
Homologation & Compliance

cc: S. Mustafa
cc: M. Ortega

SECTION 15

Other Information

CCAPS Manual Payment Request

(North America)

REF NO: 306167

NAME AND ADDRESS OF PAYEE	Employee	Ex-Employee / Board of Director	Mail Attachments	Separate Check	Special Handling
Environmental Protection Agency-MVECP				Y	
U.S. Bank - Government Lockbox 979032	Supplier Code	CCAPS Plant Code	Due Date	Currency	Amount
1005 Convention Plaza SL-MO-C2-GL St. Louis, MI 63101 The requestor is responsible to ensure the supplier code has correct company name, remit to and/or banking information whether the payment is going by check or electronically by ACH.	GXHSA	10	ASAP		206,766.00

REASON FOR DISBURSEMENT

CERTIFICATION FEES - EPA STANDARD ENGINE FAMILY, EXHAUST EMISSION CONTROL SYSTEM

COMMENTS (Shown on Remittance Advice/Not to include PII)

2025 CERTIFICATION FEES - SFMXD06.86CH, SFMXD06.87BC, SFMXD07.363H, SFMXD07.373K, SFMXD06.771D, SFMXD06.761B (FORMS ATTACHED)

LOC CODE	GEN. LED.	SUB. ACCT.	SUB. DIV.	DEPT	PROD. CODE	BALANCE REFERENCE	MISC. REFERENCE	INVOICE #	INVOICE DATE	AMOUNT (Bracket Credits)	1099 Tax Type
5100	25A	00217		5100S910		F102A	EPA			206,766.00	N
									TOTAL	206,766.00	

Pre-requisites for Payment :

1. Requestors or Approvers to ensure the following
   - Receipt of Service
   - Price Validation
   - Supported by invoice or other documentation
2. Check if payment item is on Uses of Manual Payment Requests
3. For Finance Approval follow Corporate Approval Authorities - Method of Payment

TYPE OF INVOICE:		MANUAL PAYMENT REQUEST CATEGORY (use drop down with Alt+down arrow key):	Legal Matters · Environmental Fees

Requestor

	CDS ID	Sign	Date
Preparer/Requestor	TOLIVER	Ileà Oci	4/26/24

Operations Approval - Receipt of Service

	CDS ID	Sign	Date
Approver	LMERRIT2	DocuSigned by: Lawrence H. Merritt, Jr. DF6ED4749EAC46B...	4/26/2024

Approvals per Corporate Approval Authorities - Method of Payment

Payment Item is on Uses of Manual Payment Requests

	CDS ID	Sign	Date
Finance LL5+ or Plant Controller (LL6) Unlimited	PBLANCAS	DocuSigned by: Patricia Blancas Ruiz 98D37B2D5DA0498...	4/26/24
Finance LL6 < $250,000			

Payment Item is not on Uses of Manual Payment Requests

	CDS ID	Sign	Date
Finance LL4+ Unlimited			
Finance LL5 < $25,000			

It is important to protect personal data when retaining and forwarding this Payment Authorization Form and attachments, if any.
Every effort must be made to prevent exposure.

The space below may be used for additional local requirements

July 2021 North American Check Request Form (Previous editions without the above fields may NOT be used)

3061167

EPA_MVECP_v1

US EPA Fee Form

Help and EPA Instructions

* Required Field

General Information

Date: 04/25/2024

Process Code *

Submit New Fee Filing Form

Manufacturer Code *

FMX

Manufacturer Name *

Ford Motor Company

Contact Name *

Tina Oliver

Contact Email Address *

toliver@ford.com

Contact Phone *

313-323-8938

Calendar Year complete application submitted to EPA *

2024

PLEASE NOTE: These fees apply to complete certification applications received by EPA from January 1, 2024, through December 31, 2024. The applicable fee is determined by the calendar year in which the complete certification application is received, not the model year.

Engine Family / Evaporative Family / Test Group *

SFMXD06.771D

Certificate Request Type (Industry Sector Code)

Certificate Request Type *

IMO Name (Required for dual US/IMO Marine Only)

ICI VIN Number (Required for ICIs Only)

Do you qualify for a Reduced Fee? *

No

Payment Information

Amount Owed

$34,461.00

Payment Type *

Offline ACH

Comments

Edward Fredericks, 313-805-6647

Pay.gov Tracking ID: 27DSL8E9
Agency Tracking ID: 76702043048
Ford Name: EPA MVECP Fee Filing Form (for electronic payments only)
Application Name: Motor Vehicle and Engine Compliance Program Fees

EPA Form Number 3520-29
OMB Control No. 2060-0545
Approval expires 12/31/2022

The public reporting and recordkeeping burden for this collection of information is estimated to average 12 minutes per response. Send comments on the Agency's need for this information, the accuracy of the provided burden estimates, and any suggested methods for minimizing respondent burden, including through the use of automated collection techniques to the Director, Collection Strategies Division, U.S. Environmental Protection Agency (2822T), 1200 Pennsylvania Ave., NW, Washington, D.C. 20460. Include the OMB control number in any correspondence. Do not send the completed forms to this address.

SECTION 16

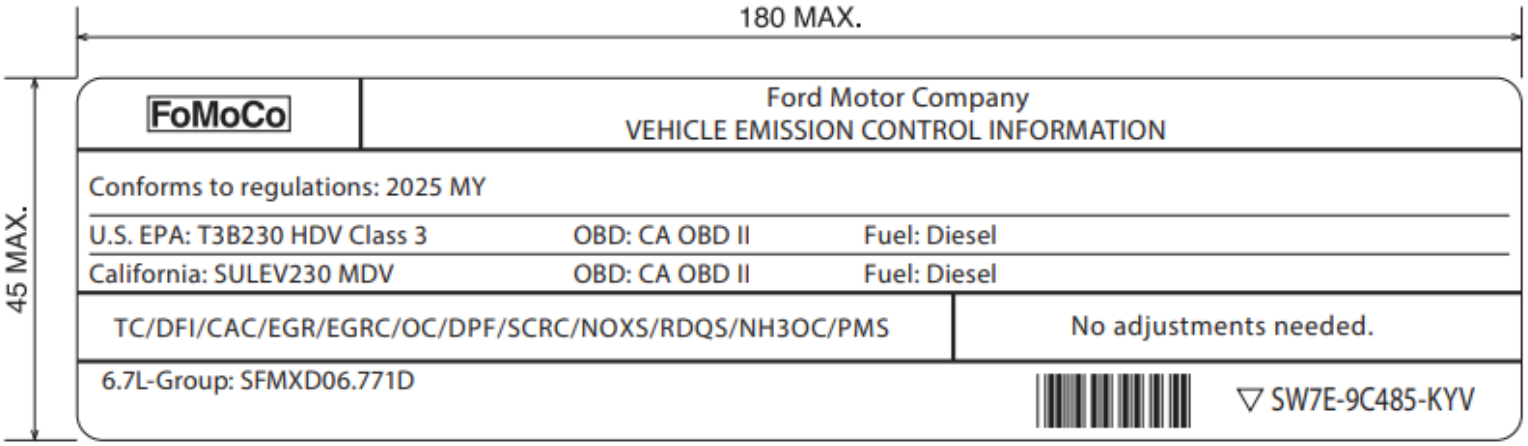
Confidential Information

SECTION 17

California ARB Requirements

SFMXD6.771D

VECI and EPL LABEL



VIEW EPL DATA																		
	Program Model Year	2025																
	PTVL	TFH																
	Group Name	SFMXD06.771D																
Model Year	Manufacturer	Make	Model Nan	Test Group Name	Label Grou	California Emission	Smog Rating	Fuel Type	Zero Emis	Flexible-Fue	CO2 City (	CO2 Highway(HFET)	Combined	CO2 City \	CO2 Highv	Combined	GHG Rating	PTVL
2025	Ford	Ford	F350 4x4	SFMXD06.771D		L3SULEV230	B	DIESEL-EI	No	No	726.6	511.3	630	No	No	No	C-	TFH

Test Group: SFMXD06.771D
Issued: July 27, 2023
Updated: December 3, 2024

California Air Resources Board | **Diesel Vehicle**

Environmental Performance

These ratings are not directly comparable to the U.S. EPA/DOT light-duty vehicle label ratings.
For information on how to compare, please see www.arb.ca.gov/ep_label.

Protect the environment. Choose vehicles with **higher ratings**:

Greenhouse Gas Rating (tailpipe only)

Smog Rating (tailpipe only)

Vehicle emissions are a primary contributor to climate change and smog. Ratings are determined by the California Air Resources Board based on this vehicle's measured emissions.

CALIFORNIA AIR RESOURCES BOARD

Test Group: SFMXD06.771D
Issued: July 27, 2023
Updated: December 3, 2024

CALIFORNIA AIR RESOURCES BOARD	FORD MOTOR COMPANY	Executive Order: A-010-2586 New Passenger Cars, Light-Duty Trucks and Medium-Duty Vehicles Page 1 of 4

Pursuant to the authority vested in California Air Resources Board by Health and Safety Code (HSC), Division 26, Part 5, Chapter 2; and pursuant to the authority vested in the undersigned by HSC Sections 39515 and 39516 and Executive Order G-19-095;

IT IS ORDERED AND RESOLVED:That the following exhaust and evaporative emission control systems produced by the manufacturer are certified as described below. Production vehicles shall be in all material respects the same as those for which certification is granted.

TEST GROUP INFORMATION

MODEL YEAR	TEST GROUP	VEHICLE CLASS(ES)	FUEL CATEGORY	FUEL TYPE
2025	SFMXD06.771D	MDV5	DEDICATED SINGLE FUEL VEHICLE	DIESEL

USEFUL LIFE (miles)		VEHICLE EMISSION CATEGORY		INTERIM / INTERMEDIATE IN-USE STD	
EXH/ORVR	EVAP	FTP	SFTP	FTP	SFTP
150000	*	LEV3 SULEV230	LEV3 ULEV (HOT1435 UC (LA92), SC03, FTP TEST CYCLE)	*	*

SPECIAL FEATURES & EXHAUST EMISSION CONTROL SYSTEMS		OBD STATUS		ENGINE DISPLACEMENT (L)
1	TC, DFI, CAC, EGR, EGRC, OC, DPF, SCRC, RDQS, NH3OC, PMS, NOXS(2)	FULL	ALL MODELS	6.7
*	*	PARTIAL	*	
*	*	PARTIAL WITH FINES	*	

EVAPORATIVE & REFUELING (EVAP/ORVR) FAMILY INFORMATION

EVAP / ORVR FAMILY	EVAPORATIVE STD CATEGORY	EVAP EMISSION STD VEHICLE CLASS	SPECIAL FEATURES
*	*	*	*

EMISSION CREDIT INFORMATION

NMOG+NOX FLEET AVE. CREDIT FOR EXTENDED WARRANTY	NMOG CREDIT FOR NON-PZEV ZERO-EVAP	NMOG CREDIT FOR DOR	OPTIONAL EXH. STD FOR WORK TRUCKS
N	N	N	N

NMOG AND FLEET AVERAGE INFORMATION

NMOG RAF	CH4 RAF	FTP NMOG/NMHC RATIO	HCHO/NMHC RATIO	NMOG+NOX FLEET STD LDT (3751 LVW-8500 GVW) + MDPV (g/mi)	NMOG+NOX FLEET STD MDV (8501-10000 GVWR) (g/mi)	NMOG+NOX FLEET STD MDV (10,001-14,000 GVWR) (g/mi)
*	*	*	*	*	*	*

See the Attachment for Vehicle Models, Evaporative Family, Engine Displacement, Emission Control Systems, Phase-In Standards, OBD Compliance, Emission Standards and Certification Levels, and Abbreviations. (As applicable, heavy-duty vehicles (HDV) over 14,000 pounds in GVWR listed in this Executive Order are certified to the requirements in 13 CCR Section 1961.2 applicable to MDV pursuant to 13 CCR Section 1956.8(c)(3) or 13 CCR Section 1956.8(h)(5), as applicable.)

BE IT FURTHER RESOLVED:
The exhaust and evaporative emission standards and the certification emission levels for the listed vehicles are as listed on the Attachment. Compliance with the 50° Fahrenheit testing requirement may have been met based on the manufacturer's submitted compliance plan in lieu of testing. Any debit in the manufacturer's fleet average compliance requirement for NMOG+NOx or Vehicle Equivalent Credit (13 CCR Sections 1961.2(b)(1), 1961.2(b)(3), or 1961.2(c)(3), and the incorporated test procedures, as applicable), or Greenhouse Gas Emissions (13 CCR Section 1961.3, or 17 CCR Section 95663, and the incorporated test procedures, as applicable), for PC, LDT, MDPV or MDV shall be equalized as required.

BE IT FURTHER RESOLVED:
For the listed vehicle models, the manufacturer has attested to compliance with Title 13, California Code of Regulations, (13 CCR) Sections 1965 [emission control labels], 1968.2 [on-board diagnostic, full or partial compliance], 2035 et seq. [emission control warranty], 2235 [fuel tank fill pipes and openings] (gasoline and alcohol fueled vehicles only), and "High-Altitude Requirements" and "Inspection and Maintenance Emission Standards" (California 2015 and Subsequent Model Criteria Pollutant Exhaust Emission Standards and Test Procedures and 2017 and Subsequent Model Greenhouse Gas Exhaust Emission Standards and Test Procedures for PC, LDT and MDV).

BE IT FURTHER RESOLVED:
The listed vehicle models have been certified on the condition that the manufacturer provide all the on-board diagnostic data required by 13 CCR Section 1968.2(h)(1) by December 17, 2024. Failure to submit the required demonstration data by the specified date, or failure of the submitted demonstration data to show compliance with the test procedures, shall be cause for California Air Resources Board to revoke this Executive Order and vehicles sold under the revoked conditional certification shall be deemed uncertified and subject to a civil penalty of up to $47,363 per vehicle pursuant to HSC Section 43154.

BE IT FURTHER RESOLVED:
The listed vehicle models have been certified on the condition the completion of California Air Resources Board-conducted confirmatory testing, pursuant to 40 CFR 86.1835-01(d). The on-road testing portion shall be used to determine the vehicle design does not incorporate strategies which unnecessarily reduce emission control effectiveness exhibited during the regulatory test cycles when the vehicle is operated under conditions that may reasonably be expected to be encountered in normal operation and use, pursuant to 40 CFR 86.1809-12(d)(1). Failure of the confirmatory testing data to show compliance with the applicable standards and test procedures or the presence of an emissions control strategy deemed to be noncompliant by the agency by May 21, 2025 shall be cause for California Air Resources Board to revoke this Executive Order and vehicles sold under the revoked conditional certification shall be deemed uncertified and subject to a civil penalty of up to $47,363 per violation per vehicle pursuant to HSC Section 43154.

Vehicles certified under this Executive Order shall conform to all applicable California emission regulations.

The Bureau of Automotive Repair will be notified by copy of this Executive Order.

Executed on this 23rd day of November 2024.

Robin U. Lang

Robin U. Lang, Chief
Emissions Certification and Compliance Division

ATTACHMENT

EXHAUST AND EVAPORATIVE EMISSION STANDARDS AND CERTIFICATION LEVELS

EXHAUST EMISSION STANDARDS AND CERTIFICATION LEVELS (FTP, HWFET, 50°F, 20°F)

CH4: methane; NMOG: non-CH4 organic gas; HC: hydrocarbon; NMHC: non-CH4 HC; CO: carbon monoxide; NOx: oxides of nitrogen; HCHO: formaldehyde; PM: particulate matter; RAF: reactivity adjustment factor; 2DHS/3DHS [g HC/test]: 2/3 days diurnal+hot-soak; RL [g HC/mi]: running loss; ORVR [g HC/gallon dispensed]: on-board refueling vapor recovery; g: gram; mg: milligram; mi: mile; K: 1000 miles; F: degrees Fahrenheit; FTP: federal test procedure; SFTP: supplemental FTP

	FUEL TYPE	NMHC+NOx (g/mi)		CO (g/mi)		NOx (g/mi)		HCHO (mg/mi)		PM (g/mi)	
		CERT	STD	CERT	STD	CERT	STD	CERT	STD	CERT	STD
FTP@50K	*	*	*	*	*	*	*	*	*	*	*
FTP@UL	DIESEL-EPA	0.112	0.230	0.1	4.2	*	*	2	6	0.004	0.010
50°F @4K	*	*	*	*	*	*	*	*	*		

	FUEL TYPE	NMHC+NOx (g/mi)		CO (g/mi)	
		CERT	STD	CERT	STD
HWFET @ 50K	*	*	*		
HWFET @ UL	DIESEL-EPA	0.054	0.230		
20°F @ 50K	*			*	*

SFTP EXHAUST EMISSION STANDARDS AND CERTIFICATION LEVELS

	FUEL TYPE		US06			SC03		COMPOSITE		
			NMHC+NOx (g/mi)	CO (g/mi)	PM (mg/mi)	NMHC+NOx (g/mi)	CO (g/mi)	NMHC+NOx (g/mi)	CO (g/mi)	PM (mg/mi)
@ 4K	*	CERT	*	*		*	*			
		STD	*	*		*	*			
@ UL	DIESEL-EPA	CERT	*	*	*	*	*	0.136	0.1	4
		STD	*	*	*	*	*	0.350	4.0	7
		BIN						*		

WHOLE VEHICLE EVAPORATIVE EMISSION STANDARDS AND CERTIFICATION LEVELS

EVAPORATIVE FAMILY	FUEL TYPE	WHOLE VEHICLE EVAPORATIVE TESTING						RL (g/mi) @ UL	
		3DHS (g/test) @ UL			2DHS (g/test) @ UL				
		CERT	STD	FEL	CERT	STD	FEL	CERT	STD
*	*	*	*	*	*	*	*	*	*

ORVR / FUEL ONLY / CANISTER BLEED EVAPORATIVE EMISSION STANDARDS AND CERTIFICATION LEVELS

EVAPORATIVE FAMILY	ORVR (g/gallon) @ UL			FUEL ONLY EVAP & CANISTER BLEED							
				FUEL TYPE	3DHS RIG TEST (g/test) @ UL		2DHS RIG TEST (g/test) @ UL		BLEED CANISTER TEST (g/test) @ 4K	
	FUEL TYPE	CERT	STD		CERT	STD	CERT	STD	CERT	STD
*	*	*	*	*	*	*	*	*	*	*

EFFECTIVE LEAK DIAMETER STANDARD AND CERTIFICATION LEVEL (INCHES)

EVAPORATIVE FAMILY	LEAK FAMILY	CERT	STD
*	*	*	*

*: not applicable; #: pounds; UL: useful life; PC: passenger car; LDT: light-duty truck; LDT1: LDT<6000#GVWR,0-3750#LVW; LDT2: LDT<6000#GVWR,3751-5750#LVW; LDT3: LDT 6001-8500#GVWR,3751-5750#ALVW; LDT4: LDT 6001-8500#GVWR,5751-8500#ALVW; MDV: medium-duty vehicle; MDV4: MDV 8501-10000#GVWR; MDV5: MDV 10001-14000#GVWR; MDPV: medium-duty passenger vehicle; HDV: heavy-duty vehicle; ECS: emission control system; CERT: certification; STD: standard; FEL: family emission limit; GVWR: gross vehicle weight rating; LVW: loaded vehicle weight; ALVW: adjusted LVW; LEV: low emission vehicle; ULEV: ultra LEV; SULEV: super ULEV; ZEV: zero-emission vehicle; TZEV: transitional ZEV; TWC/OC: 3-way/oxidizing catalyst; ADSTWC: adsorbing TWC; HAC: HC adsorbing catalyst; WU: warm-up catalyst; NAC: NOx adsorption catalyst; SCR-U or SCRC/SCR-N or SCRC-NH3: selective catalytic reduction-urea/ammonia; NH3OC: ammonia oxidation catalyst; CTOX/PTOX: continuous/periodic trap oxidizer; DPF: diesel particulate filter (active); GPF: PM filter for spark-ignited engine; cGPF (coated gasoline particulate filter); HO2S/O2S: heated/oxygen sensor; WR-HO2S or AFS: wide range/linear/heated air-fuel ratio sensor; NOXS: NOx sensor; PMS: PM sensor; RDQS: reductant quality sensor; NH3S: ammonia sensor; EGR: exhaust gas recirculation; HP/LP EGR: High/Low Pressure EGR; EGRC: EGR cooler; AIR/AIRE: secondary air injection (belt driven)/(electric driven); PAIR: pulsed AIR; SFI/MFI: sequential/multiport fuel injection; DFI/IFI: direct/indirect fuel injection; TC/SC: turbo/super charger; CAC: charge air cooler; FFH: fuel fired heater; F/P/$: full/partial/partial with fines on-board diagnostic; DOR: direct ozone reducing; HCT: hydrocarbon trap; BCAN: bleed carbon canister; prefix 2: parallel; (2) suffix: series; a hyphen (-) between after treatment ECS indicates multiple functionalities of the after treatment device (ex. DPF-SCRC: SCR coated DPF); CNG/LNG: compressed/liquefied natural gas; LPG: liquefied petroleum gas; E85: "85%" ethanol ("15%"gasoline) fuel; E10: "10%" ethanol ("90%"gasoline) fuel; A: automatic (with lockup); M: manual transmission; SA: semi-automatic transmission; CV: continuously variable transmission; SCV: selectable continuously variable transmission; AM: automated manual transmission; AMS: automated manual-selectable transmission; OT: other transmission; AER: all-electric range; EAER: equivalent AER; PHEV: plug-in hybrid electric vehicle; NMOG + NOx Fleet Ave. Credit for Extended Warranty: N = no credits, Y = credits, S = credits for some/select models

2025 MODEL YEAR: VEHICLE MODELS INFORMATION

MAKE	MODEL	VEH CLASS	ENGINE (L)	TRANS TYPE	EVAPORATIVE FAMILY	EXH ECS	OBD
FORD	F250 2WD DIESEL	MDV5	6.7	SA10	*	1	F
FORD	F250 4WD DIESEL	MDV5	6.7	SA10	*	1	F
FORD	F350 2WD DIESEL	MDV5	6.7	SA10	*	1	F
FORD	F350 4WD DIESEL	MDV5	6.7	SA10	*	1	F
FORD	F450 2WD DIESEL	MDV5	6.7	SA10	*	1	F
FORD	F450 4WD DIESEL	MDV5	6.7	SA10	*	1	F

UNITED STATES ENVIRONMENTAL PROTECTION AGENCY
2025 MODEL YEAR
CERTIFICATE OF CONFORMITY
WITH THE CLEAN AIR ACT

OFFICE OF TRANSPORTATION AND AIR QUALITY
ANN ARBOR, MICHIGAN 48105

Certificate Issued To: **Ford Motor Company**
(U.S. Manufacturer or Importer)

Certificate Number: SFMXD06.771D-050

Effective Date: 11/27/2024

Expiration Date: 12/31/2025

Byron J. Bunker, Division Director
Compliance Division

Issue Date: 11/27/2024

Revision Date: N/A

Test Group Name: SFMXD06.771D
Evaporative/Refueling Family Name:
Applicable Exhaust Emission Standards: Federal Tier 3 HD Class 3 Bin 230
Applicable Evaporative/Refueling Standards:

Engine Displacement: 6.7 Liters
Exhaust Emission Test Fuel Type: Federal Cert Diesel 7-15 PPM Sulfur
Full Useful Life Miles: Exhaust Emissions: 150,000 miles
Full Useful Life Miles: Evaporative/Refueling Emissions: N/A

Models Covered: Ford: F250 PICKUP 2WD DIESEL, F250 PICKUP 4WD DIESEL, F350 PICKUP 2WD DIESEL, F350 PICKUP 4WD DIESEL, F450 PICKUP 2WD DIESEL, F450 PICKUP 4WD DIESEL

Pursuant to section 206 of the Clean Air Act (42 U.S.C.7525) and 40 CFR Parts 85, 86, 88, 600, 1037, 1065, and 1066 as applicable, this certificate of conformity is hereby issued with respect to test vehicles which have been found to conform to the requirements of the regulations on Control of Air Pollution from New Motor Vehicles and New Motor Vehicle Engines (40 CFR Parts 85, 86, 88, 600, 1037, 1065, and 1066 as applicable) and which represent the new motor vehicle models listed above by test group and evaporative/refueling emission family, more fully described in the application of the above named manufacturer. Vehicles covered by this certificate have demonstrated compliance with the applicable emission standards as more fully described in the manufacturer's application. This certificate covers the above models, which are designed to meet the applicable emission standards specified in 40 CFR Parts 85, 86, 88, 600, 1037, 1065, and 1066 as applicable at both high and low altitude as applicable.

EPA is issuing this certificate subject to the conditions and provisions of 40 CFR 86.1848(c), and 40 CFR 1037 as applicable.

This certificate covers only those new motor vehicles or vehicle engines which conform, in all material respects, to the design specifications that apply to those vehicles or engines described in the documentation required by 40 CFR Parts 85, 86, 88, 600, 1037, 1065, and 1066 as applicable and which are produced during the 2025 model year production period stated on this certificate of the said manufacturer, as defined in 40 CFR Parts 85, 86, 88, 600, 1037, 1065, and 1066 as applicable. The manufacturer shall obtain the approval of the California Air Resources Board (in the form of an executive order issued by the California Air Resources Board) prior to introducing any vehicle covered by this certificate into commerce 1) in the State of California, or 2) in a State that, under the authority of Section 177 of the Clean Air Act, has adopted and placed into effect the California standards to which this test group has been certified.

Catalyst-equipped vehicles designed to be operated on gasoline or flexible fuel are equipped with an emission control device which the Administrator has determined will be significantly impaired by the use of leaded fuel. This certificate is issued subject to the conditions specified in 40 CFR 80.24. Catalyst-equipped vehicles designed to be operated on gasoline or flexible fuel, otherwise covered by this certificate, which are driven outside the United States, Canada, Mexico, Japan, Australia, Taiwan and the Bahama Islands will be presumed to have been operated on leaded fuel resulting in deactivation of the catalysts. If these vehicles are imported or offered for importation without retrofit of the catalyst, they will be considered not to be within the coverage of this certificate unless included in a catalyst control program operated by manufacturer or a United States Government Agency and approved by the Administrator.

In the case of completely assembled vehicles, this certificate of conformity covers only vehicles which are completely manufactured prior to January 1, 2026. Normally incompletely assembled vehicles (such as cab chassis) may be completed after this date, provided that the basic manufacturing (including installation of the emission control system) was completed prior to January 1, 2026. This certificate does not cover vehicles sold, offered for sale, or introduced, or delivered for introduction, into commerce in the U.S. prior to the effective date of the certificate.

SECTION 18

Revisions

APPLICATION REVISIONS

NO.	DATE	PAGE(S)	DESCRIPTION
Initial Cert	08/09/2024	All	2025MY Initial Submission
RC01	11/19/2024	12.00.02.00 12.00.03.00 12.00.06.00 18.00.00.00	Introduction of R06 and R07 calibration releases.

Application for Certification

Part 2

Vehicle Homologation and Compliance
Environmental and Safety Compliance
Ford Motor Company

Allen Park Test Laboratory
1500 Enterprise Drive, Suite 3W-200
Allen Park, Michigan 48101-2053

November 22, 2024

Mr. Tristin Rojeck
Certification Division
Mobile Source Air Pollution Control
U.S. Environmental Protection Agency
2000 Traverwood Dr.
Ann Arbor, Michigan 48105

Dear Mr. Rojeck:

Under the provisions of 40 CFR 86.1842-01, "Alternative Procedure for Notification of Additions and Changes", Ford Motor Company is hereby notifying the EPA of our intention to introduce into production 2025 Model Year Running Change 01 for the SFMXD06.771D test group.

This running change introduces the following calibration levels and changes:

Old Calibration	Old Certification Code	New Calibration	New Certification Code
STFHTRNM05	STFHTRN20100	STFHTRNM06	STFHTRN20101
		STFHTRNM07	STFHTRN20102
STFHTRNM05	STFHTRN30100	STFHTRNM06	STFHTRN30101
		STFHTRNM07	STFHTRN30102
STFHTRNP05	STFHTRN40100	STFHTRNP06	STFHTRN40101
		STFHTRNP07	STFHTRN40102
STFHTRNP05	STFHTRN50100	STFHTRNP06	STFHTRN50101
		STFHTRNP07	STFHTRN50102
STFHTRNW05	STFHTRN60100	STFHTRNW06	STFHTRN60101
		STFHTRNW07	STFHTRN60102
STFHY3ND05	STFHY3ND0100	STFHY3ND06	STFHY3ND0101
		STFHY3ND07	STFHY3ND0102
STFHY3NS05	STFHY3NS0100	STFHY3NS06	STFHY3NS0101
		STFHY3NS07	STFHY3NS0102
STFHY3NS05	STFHY3NT0100	STFHY3NS06	STFHY3NT0101
		STFHY3NS07	STFHY3NT0102
STFHY3NX05	STFHY3NX0100	STFHY3NX06	STFHY3NX0101
		STFHY3NX07	STFHY3NX0102

R06 Calibration level and changes:

ENGINE CONTROL STRATEGY (PCM / ECM) CHANGES:

Old Strategy Name: DCYS0
New Strategy Name: DCYS1
P2094_1310 Bosch SW Update:
1. FDEC_Err_1309.Eng.UBIS.Wrong upper and lower limits of DTR_PFltEffPS after the FCM clear – fix for deviation from OBDII software specification. impact to self cert.

2. FDEC.Safety_AD_ENGSUP_00059 - Upfitter Enhancement Remote Engine Control - Functional Safety - > Content delayed to 26MY. Disabled.
3. FDEC.OBD_ENGSUP- 00068- PTO Regulatory PID $F41E update - Upfitter enhancement - > Upfitter enhancement delayed to 26MY. Disabled, leaving carryover F41E functionality.

DAT (Diesel Aftertreatment) SW KR280 Update
1. DECAT- 1090 Urea level and concentration missing signal monitors inhibit for minimum distance and vehicle speed
2. DECAT- 1068 AECD timers changes for frozen urea conditions when Urea injection is disabled - > SW content is calibrated to ensure carryover functionality
3. DECAT- 1003 LTA values shall be routed from SCRCtlFB to SCRCtlDID and subsequently to the dat interface for exporting DIDs
4. DECAT- 996 DAT NvM error handling does not account for NVM_REQ_PENDING response from NvM_GetErrorStatus() [port solution to IK]
5. Missing DPF monitor - delay mass flow input - > no functional impact
6. DECAT- 773 SCRMonEff Mass Flow Calculation in Single SCR P703 Bundle 1.6 PL8 - Feature calibrated for transparent operation, specific for P703.t required for P708.
7. DECAT- 683 PM sensor prognostics extended histogram - DAT implementation
8. DECAT- 682 PM sensor coarse monitor - DAT implementation
9. DECAT- 700 Post injection split number error fix
10. DECAT- 675 PM sensor coarse monitor - Interface update

CKN (Kernal Communication) SW KC340 Update
1. DECCOM- 136 Upfitter enhancement (P708 MY25 + MY27) - > Content delayed to 26MY. Disabled
2. DECCOM- 132 CDD update - $EF1A Prognostics Diesel Particulate Filter Efficiency Data
3. DECCOM- 153V3 ICA3 update - Periodic call to Com_IpduGroupControl - specific to V3 application, carried over to P708
4. DECCOM- 152; DECCOM- 150Carryover V710 mechanism for conditional frame enabling - specific to V710 application, carried over to P708

CPV SW KS130 Update
1. DECVEH- 102 FDEC.Veh_C- PF_ENGSUP- 00078 - FDEC2_2216.550 CPF Interfaces implementation - Content not used on P708. Disabled.
2. DECVEH- 96 Upfitter (VFL) enhancement experimental - KS120_exp CPV - Content not delayed to 26MY. Disabled.

ENGINE CALIBRATION CHANGES:

Changes below have no impact to emissions
1. Enhanced Upfitter 4 functionality was originally planned for 25MY. This content has now been deferred to 26MY. PTO and remote engine shutdown (REC) SW that was added to support this functionality has been disabled to ensure carryover functionality.
2. Maximum allowable a/c compressor duty cycle is reduced for A/C high head pressure. Update requested by climate team to help improve compressor durability.
3. A/C and fan robustness actions to help improve compressor durability.
4. Fan update to support new SRW Fan Clutch Update for 25MY P708. Calibration update provides carry over functionality with new Fan Clutch.

ENGINE OBD CHANGES:

1. P0315 (Crankshaft Position System Variation t Learned) - Add DTC Fault Type 3rd Bytes Descriptions for future field quality analysis use P0315- 54=DFC_FBCMonWheelLrn_0, P0315-00=DFC_MDSegTiAdpn 1
2. P0315 (Crankshaft Position System Variation t Learned) - Block P0315 DTC from setting when P0335(Crank sensor no signal) or P0336(Crank sensor signal errror) are set
3. U1013(Invalid Internal Control Module Monitoring Data Received from TCM) - Add DTC Fault Type 3rd Byte description for future field quality analysis of U1013- 86 = DFC_MoFTra_GTI

4. PID F465 - Enable flag to indicate the status of PTO
5. PID F48B - Update bitmask to include Service Regen (EOM7) and DeSOx (EOM10) regen levels in status.
6. PID F48E - Enable freeze frame data
7. Update DID to allow for MB and TP sensor heating status to be read.Previously, DIDs for all 3 sensor instances were pointing to FG.This change points the MB and TP DIDs to the correct sensor instance.
8. P2002 (Particulate Filter Efficiency Below Threshold Bank1): Change DID test result number resolution, no functional impact
9. P2201 (Feedgas NOx Plausibility monitor): For improved robustness against false DTC's, modify threshold with DOC age multiplier change during DOC degreen period (initial low vehicle mileage)
10. P206B (Reductant Quality Sensor Range/Performance) & P203B (Reductant Level Sensor "A" Circuit Range/Performance) - Add entry condition requiring vehicle to travel 0.5 km, for additional robustness against false detection. Calibrate bypass of this distance traveled entry condition, when vehicle is in speed limited final inducement mode.
11. For more accurate DTC descriptions on CKCP sensors: U060E (Lost Communication with Crankcase Pressure Sensor "A") had change to 2 Trip MIL from Off for reassigned DFC's. U01C3(Lost Communication With Crankcase Oil Separator "A") DTC changed to 2 Trip MIL from Off.

TRANSMISSION CONTROL (PCM / TCM) STRATEGY CHANGES:

Old TCM Strategy Name: TZZR0
New TCM Strategy Name: TZZS0
The following strategy changes were included in TZZS0 from TZZR0
• URD 95314: Update UTCU4 P708 programs to FT3- 280 LLD (Vitesco reported a cyber security gap on the UTCU4. This release of the LLD fixes this issue)
• URD 95167: TFM: Command High Side Drivers OFF when Upfitter CIM has engine pulled down (logic is disabled for now)

TRANSMISSION / DRIVELINE CALIBRATION CHANGES:

• Upshift pressure control updates to improve shift quality.
• 4- 3 coastdown pressure- control improvement.
• 4 Element- Shift(4es) time- to- finish (TTF) buffers to improve pressure- control robustness.
• Modify min clip for trans transfer function adaptive (TCTFA) clutch curve15 (Clu E for Drive engagement)
• Speed control improvement to avoid unintended 10- 8 donwshift on speed control resume.
• Change to display correct messaging when switching between 4x4H and 4x4L modes.
• Updated Transmission OBD bitmaps to inhibit sending an EPB request in Park when there is either an ABS CAN fault, or ABS is reporting both driven wheel sensors are faulted.
• Calibration changes to comply with CFX, APR guidelines. Change only effects percent grade in which Electronic Park Brake is applied when in Park.

TRANSMISSION OBD CHANGES:

Transmission OBD–
• P060A (Internal Control Module Monitoring Processor Performance) – MIL – Updated Executive IPC low level driver version (1311233 to 1311490) to correspond with the software update contained in these calibration
• P060B (Internal Control Module Torque Calculation Performance) – MIL – Updated Transmission IPC Output Shaft Sensor speed to ABS vehicle speed comparison thresholds (MAX – 1.3 to 1.15 and MIN – 0.7 to 0.85) to add robustness against improper determination of 4L during wheel speed sensor dropouts at low speed.

GLOW DOSING MODULE (GDM) CHANGES:

P20A5 (Reductant Purge Control Valve "A" Stuck Closed) - Software issue in the purging of the DEF line after engine shut down. Calibration change to eliminate an extra pump stroke that can cause a false P20A5.
SCRMon- pPRednrmThresMax_C old 1000, new 3500 hPa. For improved robustness against false detection.

HARDWARE CHANGES:

TCM hardware update:
Description: Primary Bootloader (PBL) update to the existing TCM hardware
• Vitesco (supplier) updated the PBL for all the UTCU4 TCMs to fix a cybersecurity gap they identified.

This running change also introduces the R07 calibration levels and changes:

ENGINE CALIBRATION CHANGES:

Change Degreen Regen Mode fromEOM2 to EOM10 regen for first cycle, to improve catalyst efficiency at low mileage & increase robustness against false green catalyst P20EE DTC's.

ENGINE OBD CHANGES:

1. P20EE (SCR NOx Catalyst Efficiency Below Threshold Bank 1 Catalyst 1) - Increase DOC age threshold to match Degreen EOM10 mode burn off regen change, with no impact on monitor detection
2. P2201 (NOx Sensor Circuit Range/Performance Bank 1 Sensor 1) - Increase P2201 DOC age modifier to match Degreen EOM10 mode burn off regen change, with no impact on monitor detection

Based on good engineering judgement , this running change does not adversely affect tailpipe emissions performance, fuel economy or OBD self-certification. Therefore, new certification testing was not conducted.

As allowed under 86.1842-01 (b) (ii), Ford has determined that the above addition or change does not cause noncompliance, based on engineering evaluation, and is considered transparent.

Please contact me or Edward Fredericks (313) 805-6647 if you have any questions.

Sincerely,

DocuSigned by:
Greg D. Martin
0E20C60148EB4DC...

Greg Martin, Supervisor
Heavy-Duty Emission Certification & Durability
Emissions Certification, Homologation and Compliance

Vehicle Homologation and Compliance
Environmental and Safety Compliance
Ford Motor Company

Allen Park Test Laboratory
1500 Enterprise Drive, Suite 3W-200
Allen Park, Michigan 48101-2053

November 22, 2024

Ms. Robin U. Lang, Chief
Emissions Certification and Compliance Division
California Air Resources Board
4001 Iowa Ave.
Riverside, CA 92507

Dear Ms. Lang:

Under the provisions of section H of “California Exhaust Emission Standards and Test Procedures for 2001 and Subsequent Model Passenger Cars, Light-Duty Trucks, and Medium-Duty Vehicles” and 40 CFR 86.1842-01, "Alternative procedure for notification of additions and changes”, Ford Motor Company is hereby notifying the CARB of our intention to introduce into production 2025 Model Year Running Change 01 for the SFMXD06.771D test group.

This running change introduces the following calibration levels and changes:

Old Calibration	Old Certification Code	New Calibration	New Certification Code
STFHTRNM05	STFHTRN20100	STFHTRNM06	STFHTRN20101
		STFHTRNM07	STFHTRN20102
STFHTRNM05	STFHTRN30100	STFHTRNM06	STFHTRN30101
		STFHTRNM07	STFHTRN30102
STFHTRNP05	STFHTRN40100	STFHTRNP06	STFHTRN40101
		STFHTRNP07	STFHTRN40102
STFHTRNP05	STFHTRN50100	STFHTRNP06	STFHTRN50101
		STFHTRNP07	STFHTRN50102
STFHTRNW05	STFHTRN60100	STFHTRNW06	STFHTRN60101
		STFHTRNW07	STFHTRN60102
STFHY3ND05	STFHY3ND0100	STFHY3ND06	STFHY3ND0101
		STFHY3ND07	STFHY3ND0102
STFHY3NS05	STFHY3NS0100	STFHY3NS06	STFHY3NS0101
		STFHY3NS07	STFHY3NS0102
STFHY3NS05	STFHY3NT0100	STFHY3NS06	STFHY3NT0101
		STFHY3NS07	STFHY3NT0102
STFHY3NX05	STFHY3NX0100	STFHY3NX06	STFHY3NX0101
		STFHY3NX07	STFHY3NX0102

R06 Calibration level and changes:

ENGINE CONTROL STRATEGY (PCM / ECM) CHANGES:

Old Strategy Name: DCYS0
New Strategy Name: DCYS1
P2094_1310 Bosch SW Update:
1. FDEC_Err_1309.Eng.UBIS.Wrong upper and lower limits of DTR_PFltEffPS after the FCM clear – fix for deviation from OBDII software specification. impact to self cert.
2. FDEC.Safety_AD_ENGSUP_00059 - Upfitter Enhancement Remote Engine Control - Functional Safety - > Content delayed to 26MY. Disabled.
3. FDEC.OBD_ENGSUP- 00068- PTO Regulatory PID $F41E update - Upfitter enhancement - > Upfitter enhancement delayed to 26MY. Disabled, leaving carryover F41E functionality.

DAT (Diesel Aftertreatment) SW KR280 Update
1. DECAT- 1090 Urea level and concentration missing signal monitors inhibit for minimum distance and vehicle speed
2. DECAT- 1068 AECD timers changes for frozen urea conditions when Urea injection is disabled - > SW content is calibrated to ensure carryover functionality
3. DECAT- 1003 LTA values shall be routed from SCRCtlFB to SCRCtlDID and subsequently to the dat interface for exporting DIDs
4. DECAT- 996 DAT NvM error handling does not account for NVM_REQ_PENDING response from NvM_GetErrorStatus() [port solution to IK]
5. Missing DPF monitor - delay mass flow input - > no functional impact
6. DECAT- 773 SCRMonEff Mass Flow Calculation in Single SCR P703 Bundle 1.6 PL8 - Feature calibrated for transparent operation, specific for P703.t required for P708.
7. DECAT- 683 PM sensor prognostics extended histogram - DAT implementation
8. DECAT- 682 PM sensor coarse monitor - DAT implementation
9. DECAT- 700 Post injection split number error fix
10. DECAT- 675 PM sensor coarse monitor - Interface update

CKN (Kernal Communication) SW KC340 Update
1. DECCOM- 136 Upfitter enhancement (P708 MY25 + MY27) - > Content delayed to 26MY. Disabled
2. DECCOM- 132 CDD update - $EF1A Prognostics Diesel Particulate Filter Efficiency Data
3. DECCOM- 153V3 ICA3 update - Periodic call to Com_IpduGroupControl - specific to V3 application, carried over to P708
4. DECCOM- 152; DECCOM- 150Carryover V710 mechanism for conditional frame enabling - specific to V710 application, carried over to P708

CPV SW KS130 Update
1. DECVEH- 102 FDEC.Veh_C- PF_ENGSUP- 00078 - FDEC2_2216.550 CPF Interfaces implementation - Content not used on P708. Disabled.
2. DECVEH- 96 Upfitter (VFL) enhancement experimental - KS120_exp CPV - Content not delayed to 26MY. Disabled.

ENGINE CALIBRATION CHANGES:
Changes below have no impact to emissions
1. Enhanced Upfitter 4 functionality was originally planned for 25MY. This content has now been deferred to 26MY. PTO and remote engine shutdown (REC) SW that was added to support this functionality has been disabled to ensure carryover functionality.
2. Maximum allowable a/c compressor duty cycle is reduced for A/C high head pressure. Update requested by climate team to help improve compressor durability.
3. A/C and fan robustness actions to help improve compressor durability.
4. Fan update to support new SRW Fan Clutch Update for 25MY P708. Calibration update provides carry over functionality with new Fan Clutch.

ENGINE OBD CHANGES:
1. P0315 (Crankshaft Position System Variation t Learned) - Add DTC Fault Type 3rd Bytes Descriptions for future field quality analysis use P0315- 54=DFC_FBCMonWheelLrn_0, P0315-00=DFC_MDSegTiAdpn 1
2. P0315 (Crankshaft Position System Variation t Learned) - Block P0315 DTC from setting when P0335(Crank sensor no signal) or P0336(Crank sensor signal errror) are set
3. U1013(Invalid Internal Control Module Monitoring Data Received from TCM) - Add DTC Fault Type 3rd Byte description for future field quality analysis of U1013- 86 = DFC_MoFTra_GTI
4. PID F465 - Enable flag to indicate the status of PTO
5. PID F48B - Update bitmask to include Service Regen (EOM7) and DeSOx (EOM10) regen levels in status.
6. PID F48E - Enable freeze frame data
7. Update DID to allow for MB and TP sensor heating status to be read.Previously, DIDs for all 3 sensor instances were pointing to FG.This change points the MB and TP DIDs to the correct sensor instance.

8. P2002 (Particulate Filter Efficiency Below Threshold Bank1): Change DID test result number resolution, no functional impact
9. P2201 (Feedgas NOx Plausibility monitor): For improved robustness against false DTC's, modify threshold with DOC age multiplier change during DOC degreen period (initial low vehicle mileage)
10. P206B (Reductant Quality Sensor Range/Performance) & P203B (Reductant Level Sensor "A" Circuit Range/Performance) - Add entry condition requiring vehicle to travel 0.5 km, for additional robustness against false detection. Calibrate bypass of this distance traveled entry condition, when vehicle is in speed limited final inducement mode.
11. For more accurate DTC descriptions on CKCP sensors: U060E (Lost Communication with Crankcase Pressure Sensor "A") had change to 2 Trip MIL from Off for reassigned DFC's. U01C3(Lost Communication With Crankcase Oil Separator "A") DTC changed to 2 Trip MIL from Off.

TRANSMISSION CONTROL (PCM / TCM) STRATEGY CHANGES:

Old TCM Strategy Name: TZZR0
New TCM Strategy Name: TZZS0
The following strategy changes were included in TZZS0 from TZZR0
• URD 95314: Update UTCU4 P708 programs to FT3- 280 LLD (Vitesco reported a cyber security gap on the UTCU4. This release of the LLD fixes this issue)
• URD 95167: TFM: Command High Side Drivers OFF when Upfitter CIM has engine pulled down (logic is disabled for now)

TRANSMISSION / DRIVELINE CALIBRATION CHANGES:

• Upshift pressure control updates to improve shift quality.
• 4- 3 coastdown pressure- control improvement.
• 4 Element- Shift(4es) time- to- finish (TTF) buffers to improve pressure- control robustness.
• Modify min clip for trans transfer function adaptive (TCTFA) clutch curve15 (Clu E for Drive engagement)
• Speed control improvement to avoid unintended 10- 8 donwshift on speed control resume.
• Change to display correct messaging when switching between 4x4H and 4x4L modes.
• Updated Transmission OBD bitmaps to inhibit sending an EPB request in Park when there is either an ABS CAN fault, or ABS is reporting both driven wheel sensors are faulted.
• Calibration changes to comply with CFX, APR guidelines. Change only effects percent grade in which Electronic Park Brake is applied when in Park.

TRANSMISSION OBD CHANGES:

Transmission OBD–
• P060A (Internal Control Module Monitoring Processor Performance) – MIL – Updated Executive IPC low level driver version (1311233 to 1311490) to correspond with the software update contained in these calibration
• P060B (Internal Control Module Torque Calculation Performance) – MIL – Updated Transmission IPC Output Shaft Sensor speed to ABS vehicle speed comparison thresholds (MAX – 1.3 to 1.15 and MIN – 0.7 to 0.85) to add robustness against improper determination of 4L during wheel speed sensor dropouts at low speed.

GLOW DOSING MODULE (GDM) CHANGES:

P20A5 (Reductant Purge Control Valve "A" Stuck Closed) - Software issue in the purging of the DEF line after engine shut down. Calibration change to eliminate an extra pump stroke that can cause a false P20A5.
SCRMon- pPRednrmThresMax_C old 1000, new 3500 hPa. For improved robustness against false detection.

HARDWARE CHANGES:

TCM hardware update:
Description: Primary Bootloader (PBL) update to the existing TCM hardware
• Vitesco (supplier) updated the PBL for all the UTCU4 TCMs to fix a cybersecurity gap they identified.

This running change also introduces the R07 calibration levels and changes:

ENGINE CALIBRATION CHANGES:

Change Degreen Regen Mode from EOM2 to EOM10 regen for first cycle, to improve catalyst efficiency at low mileage & increase robustness against false green catalyst P20EE DTC's.

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Emissions Certification, Homologation and Compliance

cc S. Mustafa
cc M. Ortega