APPLICATION FOR CERTIFICATION

2018 MODEL YEAR

Durability Group:	JGMXDPDNNE80
Test Group:	JGMXJ01.6356
Summary Sheet No:	NA
Durability Group Description:	Four Stroke, Compression Ignition Cycle, Diesel Fueled, Direct FI, Turbocharger, Ceramic Monolith Pt/Pd Catalyst, Diesel Particulate Filter, Selective Catalyst Reduction
Durability Vehicle:	Aged Components
OBD Group:	18OBDG04
Test Group Description:	1.6L L4
Applicable Standards:	California and Federal CAR BIN125/ULEV125
Carlines Covered by Evaporative Family:	1.6L Chevrolet CRUZE Chevrolet CRUZE HATCHBACK Chevrolet EQUINOX Chevrolet EQUINOX AWD GMC TERRAIN GMC TERRAIN AWD --
Vehicles Tested:	161JLV8006
For Questions, Contact:	R. J. Vito (248-520-2143)

TABLE OF CONTENTS

Part 1	(Included in Initial Application)
Section 86.1844(d)(1)	Correspondence and Communications (Refer to Common Section)
Section 86.1844(d)(2)	Durability Group Description (Refer to Common Section)
Section 86.1844(d)(3)	Evaporative/Refueling Family Description (Refer to Common Section)
Section 86.1844(d)(4)	Durability Procedure Description (Refer to Common Section)
Section 86.1844(d)(5)	Test Group Description (Refer to Common Section)
Section 86.1844(d)(6)	Test Vehicle Description
Section 86.1844(d)(7)	Emission Standards and Test Results
Section 86.1844(d)(8)	Compliance Statements (Refer to Common Section)
Section 86.1844(d)(9)	OBD System Description (Refer to Common Section)
Section 86.1844(d)(10)	Description of Flexible and Alternative-Fueled Vehicles
Section 86.1844(d)(11)	AECD Description (Also Included in Common Section)
Section 86.1844(d)(12)	Description of Vehicles Covered by Certificate and Test Parameters
Section 86.1844(d)(13)	Projected Sales
Section 86.1844(d)(14)	Request Letter(s)
Section 86.1844(b)	Additional Information
Section 18.1817-05	Complete Heavy-Duty Chassis-Certified Vehicle Average, Trading and Banking Program (Refer to Common Section)
Section 18.1037.205(c)	Air Conditioning System Leakage (Heavy-Duty Vehicles Only)
Part 2	(Included in Final Application)
Section 86.1844(e)(1)	Part Numbers
Section 86.1844(e)(2)	Basic Calibration Information
Section 86.1844(e)(3)	Description of Vehicles Covered by Certificate (Refer to Section 86.1844(d)(12))
Section 86.1844(e)(4)	Final Sales (Refer to Common Section)
Section 86.1844(e)(5)	Service Information (Refer to Request Letter, 86.1844(d)(14))
Section 86.1844(e)(6)	Gasoline to Ethanol Emissions Conversion Ratio (Flex Fuel Only)

TEST VEHICLE DESCRIPTION

	Durability Vehicle Selection	Emission-Data Vehicle Selection
Test Group	NA – Aged Components	JGMXJ01.6356
Evaporative Family		NA - Diesel
Displacement – Liters		1.6L
Engine Code		1
Emission Control System		
Exhaust		CAC/TC/DFI/OC/DPF/SCRC/ EGR/EGRC/NOXS(2)/PMS/RDQS
Evap		NA
Model		TXB26
Transmission Type/Code		A6/1 (MHG)
Shift Schedule		NA
(LVW/ALVW) Test Weight – Lbs		4250 LVW
GVWR		4850
Roadload HP		15.1
Final Drive		2.89
N/V Ratio – rpm/mph		26.6
Tires		P235/50R19
Vehicle/EPA Config No./GM Config No.		
FTP & HWFE		161JLV8006//00/001
US06		161JLV8006//00/001
SC03		161JLV8006//00/001
20° CO		161JLV8006//00/001

NOTE: For complete vehicle information, see vehicle information submitted in VERIFY database.

Data Vehicle Selection Justification – Heaviest test weight, highest roadload horsepower and highest N/V ratio available. This combination typically produces the worst case for exhaust emissions due to engine loads.

2018 EMISSION STANDARDS

BIN125 (PC / LDT1) DIESEL

TEST GROUP NAME: JGMXJ01.6356

CERTIFICATION AND IN-USE STANDARDS

LOW AND HIGH ALTITUDE:

	FTP TEST						
	Low Altitude NMOG+NOx	High Altitude NMOG+NOx	CO	HCHO	PM	CH4	N2O
120K STD	NA	NA	NA	NA	NA	0.080	0.030
150K STD	0.125	0.160	2.1	0.004	0.003	NA	NA
CERT 120K DF							
CERT 150K DF	NA – Aged Components						

	HWY TEST	
	Low Altitude NMOG+NOx	High Altitude NMOG+NOx
50K STD	NA	NA
120K STD	NA	NA
150K STD	0.125	0.160
CERT 50K DF		
CERT 150K DF	NA – Aged Components	

SFTP - LOW ALTITUDE:

	US06 PM	COMP*2 NMOG+NOx	COMP*2 CO
150K STD	0.010	0.120	4.2

IN-USE STANDARDS

	FTP PM *1
150K STD	0.006

*1 Used through 2021 model year for a test group certified to Tier 3 standards

*2 Composite Standard for NMOG+NOx, CO = 35%FTP + 28%US06 + 37%SC03

2018 EMISSION STANDARDS

ULEV125 (PC / LDT1 / LDT2 < 6000 GVW) DIESEL

TEST GROUP NAME: JGMXJ01.6356

CERTIFICATION AND IN-USE STANDARDS

LOW AND HIGH ALTITUDE:

	FTP				HWY TEST
	NMOG+NOx	CO	HCHO	PM	NMOG+NOx
50K STD	NA	NA	NA	NA	NA
150K STD	0.125	2.1	0.004	0.003	0.125
CERT 150K DF	NA – Aged Components				

SFTP - LOW ALTITUDE:

	US06 PM	COMP*2 NMOG+NOx	COMP*2 CO
150K STD	0.010	0.120	4.2

IN-USE STANDARDS

	FTP *3 PM	SFTP COMP*2 NMOG+NOx	US06 PM*1
150K STD	0.006	0.120	0.010

*1 Used for programs certified to LEV III PM for 2023 and earlier.

*2 Composite Standard for NMOG+NOx, and CO = 35%FTP + 28%US06 + 37%SC03

*3 Used only for the first two model years a test group is certified to LEV III standards for 2020 MY and earlier.

Certification Summary Information Report

Manufacturer	General Motors LLC	**Manufacturer Code**	GMX
Test Group	JGMXJ01.6356	**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**	02/15/2017 02:36:26 PM
Model Year	2018		

Test Group Information

CSI Type	New	**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**	LDV
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	JGMXDPDNNE80	**Durability Group Equivalency Factor**	1
Reduced Fee Test Group	No	**Certification Region Code(s)**	FA, CA
Complies with HD GHG 2b/3 regulations?	No		
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**	JGMXJ01.6356
Test Group OBD Compliance Level	Partial - with deficiencies and penalty	**Number of Test Group OBD Deficiencies**	7
OBD Deficiencies Comments	--		
Mfr Test Group Comments	--		
Mfr Exhaust / Evap Standards Comments	--		

Certification Summary Information Report

Test Group	JGMXJ01.6356	**Evaporative/Refueling Family**	--

Models Covered by this Certificate

Carline Manufacturer	Division	Carline	Certification Region Code(s)	Drive System	Trans - Type	- # of Gears	Trans - Lockup
General Motors LLC	4 - GMC	943 - TERRAIN	California + CAA Section 177 states	2-Wheel Drive, Front	Automatic	6	Yes
General Motors LLC	3 - Chevrolet	981 - EQUINOX	Federal	2-Wheel Drive, Front	Automatic	6	Yes
General Motors LLC	4 - GMC	944 - TERRAIN AWD	Federal	All Wheel Drive	Automatic	6	Yes
General Motors LLC	3 - Chevrolet	982 - EQUINOX AWD	Federal	All Wheel Drive	Automatic	6	Yes
General Motors LLC	3 - Chevrolet	978 - CRUZE HATCHBACK	Federal	2-Wheel Drive, Front	Manual	6	No
General Motors LLC	3 - Chevrolet	972 - CRUZE	California + CAA Section 177 states	2-Wheel Drive, Front	Automatic	9	Yes
General Motors LLC	3 - Chevrolet	982 - EQUINOX AWD	California + CAA Section 177 states	All Wheel Drive	Automatic	6	Yes
General Motors LLC	3 - Chevrolet	972 - CRUZE	Federal	2-Wheel Drive, Front	Manual	6	No
General Motors LLC	3 - Chevrolet	978 - CRUZE HATCHBACK	California + CAA Section 177 states	2-Wheel Drive, Front	Automatic	9	Yes
General Motors LLC	4 - GMC	943 - TERRAIN	Federal	2-Wheel Drive, Front	Automatic	6	Yes
General Motors LLC	3 - Chevrolet	981 - EQUINOX	California + CAA Section 177 states	2-Wheel Drive, Front	Automatic	6	Yes
General Motors LLC	3 - Chevrolet	972 - CRUZE	Federal	2-Wheel Drive, Front	Automatic	9	Yes
General Motors LLC	3 - Chevrolet	972 - CRUZE	California + CAA Section 177 states	2-Wheel Drive, Front	Manual	6	No
General Motors LLC	3 - Chevrolet	978 - CRUZE HATCHBACK	California + CAA Section 177 states	2-Wheel Drive, Front	Manual	6	No
General Motors LLC	3 - Chevrolet	978 - CRUZE HATCHBACK	Federal	2-Wheel Drive, Front	Automatic	9	Yes
General Motors LLC	4 - GMC	944 - TERRAIN AWD	California + CAA Section 177 states	All Wheel Drive	Automatic	6	Yes

Engine Description

Hybrid Type	--	**Hybrid Description**	--
Engine Type	4-Stroke Compression Ignition	**Mfr Engine Description**	--
Engine Block Arrangement	Inline	**Mfr Engine Block Arrangement Description**	--
Camless Valvetrain Indicator	No	**Oil Viscosity/Classification**	5W30
Number of Cylinders/Rotors	4		

Certification Summary Information Report

Test Group	JGMXJ01.6356	**Evaporative/Refueling Family**	--

After Treatment Device(s) (ATD)

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

Mfr After Treatment Device (ATD) Comments	--
Direct Ozone Reduction (DOR) Device	Not Equipped
Mfr Emission Control Device Comments	--

Engine Configuration Number 1

Engine Displacement (liters)	1.6	**Engine Rated Horsepower**	136
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**	Air
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**	0
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	--		
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	JGMX91003433	JGMX91003429	JGMX91003434	JGMX10046366	JGMX91003428	26.6	25.7	33.6	33.0	--

Certification Summary Information Report

Test Group	JGMXJ01.6356	**Evaporative/Refueling Family**	--

Emission Data Vehicle Information

Vehicle ID / Configuration	161JLV8006 / 0	**Manufacturer Vehicle Configuration Number**	1
Original Test Group Name	JGMXJ01.6356	**Original Evaporative/Refueling Family**	--
Original Test Vehicle Model Year	2018		

Vehicle Model

Represented Test Vehicle Make	GMC	**Represented Test Vehicle Model**	TERRAIN AWD

Leak Family Details

Leak Family Identifier	LK1	**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
Odometer Correction Sign	+ = System Miles is equal to (Test odometer reading * Correction factor) + Initial system miles		
Odometer Correction Units	Miles		
Engine Code	1	**Rated Horsepower**	136
Displacement (liters)	1.6		
Air Aspiration Method	Turbocharged	**Air Aspiration Method, if 'Other'**	
Number of Air Aspiration Devices	1	**Air Aspiration Device Configuration**	Single
Charge Air Cooler Type	Air	**Drive Mode While Testing**	2-Wheel Drive, Front
Shift Indicator Light Usage	Not eqipped	**Aged Emission Components**	150,000 (mi)
Curb Weight (lbs)	3829	**Equivalent Test Weight (pounds)**	4250
GVWR (lbs)	4850	**N/V Ratio**	26.6
Axle Ratio	2.89		
Transmission Type	Automatic	**# of Transmission Gears**	6
Transmission Lockup	Yes	**Creeper Gear**	No

Certification Summary Information Report

Test Group	JGMXJ01.6356	Evaporative/Refueling Family	--

Dynamometer Coefficients:

Coefficient Category	Target Coefficients A (lbf)	Target Coefficients B (lbf/mph)	Target Coefficients C (lbf/mph**2)	Set Coefficients A (lbf)	Set Coefficients B (lbf/mph)	Set Coefficients C (lbf/mph**2)	EPA Calculated Total Road Load Horse Power for City/Highway/Evap Coefficients
City/Highway/Evap	42.98	0.1783	0.02455	19.81	0.0559	0.02374	15.1
Cold CO	47.28	0.1961	0.02701	18.07	-0.0524	0.02716	N/A
US06	42.98	0.1783	0.02455	19.81	0.0559	0.02374	N/A

Emission Control Device Comments --

Manufacturer Test Vehicle Comments --

Certification Summary Information Report

Test Group	JGMXJ01.6356	**Evaporative/Refueling Family**	--

Test #	**JGMX10046362**	**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	01/07/2017	**Fuel**	Diesel
Fuel Batch ID	000400	**Fuel Calibration Number**	8385
Vehicle Class	LDV/Passenger Car	**DF Type**	Aged components installed In the emission data vehicle
Verify Test Lab ID	Milford		
E10 Evaporative Test Measurement Method	--		
Test Start Odometer Reading	4322	**Odometer Units**	M
4WD Test Dyno	No	**Diesel Adjustment Factor Usage**	U
State of Charge Delta	No		
Drive Cycle Speed Tolerance Criteria	Used Part 1066 (+/- 2.0 mph, +/- 1.0 sec)	**Road Speed Fan Usage**	No

Test Results

Test Result Name	Unrounded Test Result	Verify Calculated FE Equivalent Value (miles per gallon)
CO2 BAG 1 (Bag 1 Carbon Dioxide)	322	--
FE BAG 1 (Bag 1 Fuel Economy)	31.3	31.3
CO2 BAG 2 (Bag 2 Carbon Dioxide)	281	--
FE BAG 2 (Bag 2 Fuel Economy)	36.2	36.2
CO2 BAG 3 (Bag 3 Carbon Dioxide)	284	--
FE BAG 3 (Bag 3 Fuel Economy)	35.8	35.8
METHANE (CH4 - Methane)	0.0729018	--
CO (Carbon Monoxide)	0.322482	--
DT-ASCR (Drive Trace Absolute Speed Change Rating)	-0.036771	--
DT-EER (Drive Trace Energy Economy Rating)	0.0707416	--
DT-IWRR (Drive Trace Inertia Work Ratio Rating)	-0.248551	--
HCHO (Formaldehyde)	0.0007651	--
MFR FE (Manufacturer Fuel Economy)	34.9	34.9
NOX (Nitrogen Oxide)	0.03003	--
N2O (Nitrous Oxide)	0.023	--
HC-NM (Non-methane Hydrocarbon)	0.0191269	--
NMOG (Non-methane organic gas (California))	0.0191269	--
PM (Particulate Matter)	0.00004	--
HC-TOTAL (Total Hydrocarbon)	0.0880246	--

Certification Summary Information Report

Test Group JGMXJ01.6356 **Evaporative/Refueling Family** --

Test Result Name	Unrounded Test Result	Verify Calculated CREE/OPT-CREE
Carbon-Related Exhaust Emissions	292	292

Test Result Name	Unrounded Test Result	Verify Calculated CO2
Carbon dioxide	290.7	--

Manufacturer Test Comments 150K EMIS TEST

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	120,000 miles	Federal Tier 3 Bin 125	CREE	292	1	--	0 UP	0	--	292	--	--
Fed	120,000 miles	Federal Tier 3 Bin 125	METHANE	0.0729	1	--	0 UP	--	--	0.073	0.080	Pass
Fed	120,000 miles	Federal Tier 3 Bin 125	N2O	0.0230	1	--	0 UP	--	--	0.023	0.030	Pass
Fed	150,000 miles	Federal Tier 3 Bin 125	CO	0.32	1	--	0.00 UP	--	--	0.3	2.1	Pass
Fed	150,000 miles	Federal Tier 3 Bin 125	NMOG	0.0191	1	--	0.0009 UP	--	--	0.020	99.999	Pass
Fed	150,000 miles	Federal Tier 3 Bin 125	NMOG+NOX	0.0491	1	--	0 UP	--	--	0.052	0.125	Pass
Fed	150,000 miles	Federal Tier 3 Bin 125	NOX	0.0300	1	--	0.0015 UP	--	--	0.032	99.999	Pass
Fed	150,000 miles	Federal Tier 3 Bin 125	PM	0.0000	1	--	0.0002 UP	--	--	0.000	0.003	Pass
CA	150,000 miles	California LEV-III ULEV125	CO	0.32	1	--	0.00 UP	--	--	0.3	2.1	Pass
CA	150,000 miles	California LEV-III ULEV125	NMOG	0.0191	1	--	0.0009 UP	--	--	0.020	99.999	Pass
CA	150,000 miles	California LEV-III ULEV125	NMOG+NOX	0.0491	1	--	0 UP	--	--	0.052	0.125	Pass
CA	150,000 miles	California LEV-III ULEV125	NOX	0.0300	1	--	0.0015 UP	--	--	0.032	99.999	Pass
CA	150,000 miles	California LEV-III ULEV125	PM	0.0000	1	--	0.0002 UP	--	--	0.000	0.003	Pass

NOTE: For Non-charge depleting tests, the Rounded Result for CREE/OPT-CREE Emission names are Verify-calculated values.

Certification Summary Information Report

Test Group	JGMXJ01.6356	**Evaporative/Refueling Family**	--

Test #	**JGMX10046366**	**Test Procedure**	**11 - Cold CO**
Exhaust Test # for this Evap Test	--	**Test Fuel Type**	19 - Federal Cert Diesel 7-15 PPM Sulfur
Test Date	01/11/2017	**Fuel**	N/A
Fuel Batch ID	000400	**Fuel Calibration Number**	8385
Vehicle Class	N/A	**DF Type**	Aged components installed In the emission data vehicle
Verify Test Lab ID	Milford		
E10 Evaporative Test Measurement Method	--		
Test Start Odometer Reading	4415	**Odometer Units**	M
4WD Test Dyno	No	**Diesel Adjustment Factor Usage**	U
State of Charge Delta	No		
Drive Cycle Speed Tolerance Criteria	Used Part 1066 (+/- 2.0 mph, +/- 1.0 sec)	**Road Speed Fan Usage**	No

Test Results

Test Result Name	Unrounded Test Result	Verify Calculated FE Equivalent Value (miles per gallon)
CO2 BAG 1 (Bag 1 Carbon Dioxide)	444	--
FE BAG 1 (Bag 1 Fuel Economy)	22.8	22.8
CO2 BAG 2 (Bag 2 Carbon Dioxide)	396	--
FE BAG 2 (Bag 2 Fuel Economy)	25.7	25.7
CO2 BAG 3 (Bag 3 Carbon Dioxide)	320	--
FE BAG 3 (Bag 3 Fuel Economy)	31.8	31.8
METHANE (CH4 - Methane)	0.0391193	--
CO (Carbon Monoxide)	0.317924	--
DT-ASCR (Drive Trace Absolute Speed Change Rating)	0.982468	--
DT-EER (Drive Trace Energy Economy Rating)	1.2079	--
DT-IWRR (Drive Trace Inertia Work Ratio Rating)	1.05559	--
MFR FE (Manufacturer Fuel Economy)	26.4	26.4
NOX (Nitrogen Oxide)	0.0985475	--
HC-NM (Non-methane Hydrocarbon)	0.0110684	--
NMOG (Non-methane organic gas (California))	0.0110684	--
HC-TOTAL (Total Hydrocarbon)	0.0235727	--

Test Result Name	Unrounded Test Result	Verify Calculated CO2
Carbon dioxide	384.8	--

Manufacturer Test Comments 150K COLD TEST

Certification Summary Information Report

Test Group	JGMXJ01.6356	**Evaporative/Refueling Family**	--

Test #	**JGMX91003433**	**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	02/07/2017	**Fuel**	Diesel
Fuel Batch ID	25783	**Fuel Calibration Number**	1
Vehicle Class	LDV/Passenger Car	**DF Type**	Aged components installed In the emission data vehicle
Verify Test Lab ID	--		
E10 Evaporative Test Measurement Method	--		
Test Start Odometer Reading	4628	**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)	326.9571838	--
FE BAG 1 (Bag 1 Fuel Economy)	30.9763832	--
CO2 BAG 2 (Bag 2 Carbon Dioxide)	272.731781	--
FE BAG 2 (Bag 2 Fuel Economy)	37.3058662	--
CO2 BAG 3 (Bag 3 Carbon Dioxide)	299.8591003	--
FE BAG 3 (Bag 3 Fuel Economy)	33.9055672	--
METHANE (CH4 - Methane)	0.0298019	--
CO (Carbon Monoxide)	0.1270832	--
DT-ASCR (Drive Trace Absolute Speed Change Rating)	-0.715319	--
DT-EER (Drive Trace Energy Economy Rating)	0.4691249	--
DT-IWRR (Drive Trace Inertia Work Ratio Rating)	-0.4859718	--
MFR FE (Manufacturer Fuel Economy)	34.8870354	--
NOX (Nitrogen Oxide)	0.0622262	--
HC-NM (Non-methane Hydrocarbon)	0.0395292	--
NMOG (Non-methane organic gas (California))	0.0395292	--
PM (Particulate Matter)	0.000036	--
HC-TOTAL (Total Hydrocarbon)	0.0675184	--

Test Result Name	Unrounded Test Result	Verify Calculated CREE/OPT-CREE
Carbon-Related Exhaust Emissions	291	291

Certification Summary Information Report

Test Group JGMXJ01.6356 **Evaporative/Refueling Family** --

Test Result Name	Unrounded Test Result	Verify Calculated CO2
Carbon dioxide	291.4810181	--

Manufacturer Test Comments None

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	120,000 miles	Federal Tier 3 Bin 125	CREE	291	1	--	0 UP	0	--	291	--	--
Fed	120,000 miles	Federal Tier 3 Bin 125	METHANE	0.0298	1	--	0 UP	--	--	0.030	0.080	Pass
Fed	150,000 miles	Federal Tier 3 Bin 125	CO	0.13	1	--	0.00 UP	--	--	0.1	2.1	Pass
Fed	150,000 miles	Federal Tier 3 Bin 125	CO-COMP	0.22	--	--	0 UP	--	--	0.2	4.2	Pass
Fed	150,000 miles	Federal Tier 3 Bin 125	NMOG	0.0395	1	--	0.0009 UP	--	--	0.040	99.999	Pass
Fed	150,000 miles	Federal Tier 3 Bin 125	NMOG+NOX	0.1017	1	--	0 UP	--	--	0.104	0.125	Pass
Fed	150,000 miles	Federal Tier 3 Bin 125	NMOG+NOX-COMP	0.1125	--	--	0 UP	--	--	0.112	0.120	Pass
Fed	150,000 miles	Federal Tier 3 Bin 125	NOX	0.0622	1	--	0.0015 UP	--	--	0.064	99.999	Pass
Fed	150,000 miles	Federal Tier 3 Bin 125	PM	0.0000	1	--	0.0002 UP	--	--	0.000	0.003	Pass
CA	150,000 miles	California LEV-III ULEV125	CO	0.13	1	--	0.00 UP	--	--	0.1	2.1	Pass
CA	150,000 miles	California LEV-III ULEV125	CO-COMP	0.22	--	--	0 UP	--	--	0.2	4.2	Pass
CA	150,000 miles	California LEV-III ULEV125	NMOG	0.0395	1	--	0.0009 UP	--	--	0.040	99.999	Pass
CA	150,000 miles	California LEV-III ULEV125	NMOG+NOX	0.1017	1	--	0 UP	--	--	0.104	0.125	Pass
CA	150,000 miles	California LEV-III ULEV125	NMOG+NOX-COMP	0.1125	--	--	0 UP	--	--	0.112	0.120	Pass
CA	150,000 miles	California LEV-III ULEV125	NOX	0.0622	1	--	0.0015 UP	--	--	0.064	99.999	Pass
CA	150,000 miles	California LEV-III ULEV125	PM	0.0000	1	--	0.0002 UP	--	--	0.000	0.003	Pass

NOTE: For Non-charge depleting tests, the Rounded Result for CREE/OPT-CREE Emission names are Verify-calculated values.

Certification Summary Information Report

Test Group	JGMXJ01.6356	**Evaporative/Refueling Family**	--

Test #	**JGMX91003428**	**Test Procedure**	**3 - HWFE**
Exhaust Test # for this Evap Test	--	**Test Fuel Type**	19 - Federal Cert Diesel 7-15 PPM Sulfur
Test Date	02/02/2017	**Fuel**	Diesel
Fuel Batch ID	25783	**Fuel Calibration Number**	1
Vehicle Class	LDV/Passenger Car	**DF Type**	Aged components installed In the emission data vehicle
Verify Test Lab ID	--		
E10 Evaporative Test Measurement Method	--		
Test Start Odometer Reading	4575	**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	--
CO (Carbon Monoxide)	0.0102935	--
DT-ASCR (Drive Trace Absolute Speed Change Rating)	-0.17034	--
DT-EER (Drive Trace Energy Economy Rating)	-0.6070191	--
DT-IWRR (Drive Trace Inertia Work Ratio Rating)	0.0763107	--
MFR FE (Manufacturer Fuel Economy)	50.6866035	--
NOX (Nitrogen Oxide)	0.0009563	--
HC-NM (Non-methane Hydrocarbon)	0.0007208	--
NMOG (Non-methane organic gas (California))	0.0007208	--
PM (Particulate Matter)	0.000078	--
HC-TOTAL (Total Hydrocarbon)	0.0007291	--

Test Result Name	Unrounded Test Result	Verify Calculated CREE/OPT-CREE
Carbon-Related Exhaust Emissions	201	201

Test Result Name	Unrounded Test Result	Verify Calculated CO2
Carbon dioxide	200.7421722	--

Manufacturer Test Comments None

Certification Summary Information Report

Test Group JGMXJ01.6356 **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	120,000 miles	Federal Tier 3 Bin 125	CREE	201	1	--	0 UP	0	--	201	--	--
Fed	150,000 miles	Federal Tier 3 Bin 125	NMOG	0.0007	1	--	0.0009 UP	--	--	0.002	99.999	Pass
Fed	150,000 miles	Federal Tier 3 Bin 125	NMOG+NOX	0.0017	1	--	0 UP	--	--	0.004	0.125	Pass
Fed	150,000 miles	Federal Tier 3 Bin 125	NOX	0.0010	1	--	0.0015 UP	--	--	0.002	99.999	Pass
CA	150,000 miles	California LEV-III ULEV125	NMOG	0.0007	1	--	0.0009 UP	--	--	0.002	99.999	Pass
CA	150,000 miles	California LEV-III ULEV125	NMOG+NOX	0.0017	1	--	0 UP	--	--	0.004	0.125	Pass
CA	150,000 miles	California LEV-III ULEV125	NOX	0.0010	1	--	0.0015 UP	--	--	0.002	99.999	Pass

NOTE: For Non-charge depleting tests, the Rounded Result for CREE/OPT-CREE Emission names are Verify-calculated values.

Certification Summary Information Report

Test Group	JGMXJ01.6356	**Evaporative/Refueling Family**	--

Test #	**JGMX91003429**	**Test Procedure**	**90 - US06**
Exhaust Test # for this Evap Test	--	**Test Fuel Type**	19 - Federal Cert Diesel 7-15 PPM Sulfur
Test Date	02/02/2017	**Fuel**	Diesel
Fuel Batch ID	25783	**Fuel Calibration Number**	1
Vehicle Class	LDV/Passenger Car	**DF Type**	Aged components installed In the emission data vehicle
Verify Test Lab ID	--		
E10 Evaporative Test Measurement Method	--		
Test Start Odometer Reading	4596	**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)	470.4172363	--
FE BAG 1 (Bag 1 Fuel Economy)	21.6020908	--
CO2 BAG 2 (Bag 2 Carbon Dioxide)	282.4396973	--
FE BAG 2 (Bag 2 Fuel Economy)	35.9502296	--
METHANE (CH4 - Methane)	0.0017163	--
CO (Carbon Monoxide)	0.3933619	--
DT-ASCR (Drive Trace Absolute Speed Change Rating)	-1.146651	--
DT-EER (Drive Trace Energy Economy Rating)	-0.3240035	--
DT-IWRR (Drive Trace Inertia Work Ratio Rating)	-2.2689757	--
MFR FE (Manufacturer Fuel Economy)	31.3440876	--
NOX (Nitrogen Oxide)	0.1268504	--
HC-NM (Non-methane Hydrocarbon)	0	--
NMOG (Non-methane organic gas (California))	0	--
PM (Particulate Matter)	0.000202	--
HC-TOTAL (Total Hydrocarbon)	0.000897	--

Test Result Name	Unrounded Test Result	Verify Calculated CO2
Carbon dioxide	324.0295715	--

Manufacturer Test Comments None

Certification Summary Information Report

Test Group JGMXJ01.6356 **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 Bin 125	CO	0.39	1	--	0.00 UP	--	--	0.4	99.9	Pass
Fed	150,000 miles	Federal Tier 3 Bin 125	NMOG	0.0000	1	--	0.0009 UP	--	--	0.001	99.999	Pass
Fed	150,000 miles	Federal Tier 3 Bin 125	NMOG+NOX	0.1269	1	--	0 UP	--	--	0.129	99.999	Pass
Fed	150,000 miles	Federal Tier 3 Bin 125	NOX	0.1269	1	--	0.0015 UP	--	--	0.128	99.999	Pass
Fed	150,000 miles	Federal Tier 3 Bin 125	PM	0.0002	1	--	0.0002 UP	--	--	0.000	0.010	Pass
CA	150,000 miles	California LEV-III ULEV125	CO	0.39	1	--	0.00 UP	--	--	0.4	99.9	Pass
CA	150,000 miles	California LEV-III ULEV125	NMOG	0.0000	1	--	0.0009 UP	--	--	0.001	99.999	Pass
CA	150,000 miles	California LEV-III ULEV125	NMOG+NOX	0.1269	1	--	0 UP	--	--	0.129	99.999	Pass
CA	150,000 miles	California LEV-III ULEV125	NOX	0.1269	1	--	0.0015 UP	--	--	0.128	99.999	Pass
CA	150,000 miles	California LEV-III ULEV125	PM	0.0002	1	--	0.0002 UP	--	--	0.000	0.010	Pass

Certification Summary Information Report

Test Group	JGMXJ01.6356	**Evaporative/Refueling Family**	--

Test #	**JGMX91003434**	**Test Procedure**	**95 - SC03**
Exhaust Test # for this Evap Test	--	**Test Fuel Type**	19 - Federal Cert Diesel 7-15 PPM Sulfur
Test Date	02/02/2017	**Fuel**	Diesel
Fuel Batch ID	25783	**Fuel Calibration Number**	1
Vehicle Class	LDV/Passenger Car	**DF Type**	Aged components installed In the emission data vehicle
Verify Test Lab ID	--		
E10 Evaporative Test Measurement Method	--		
Test Start Odometer Reading	461	**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)	0.0535428	--
CO (Carbon Monoxide)	0.1819111	--
DT-ASCR (Drive Trace Absolute Speed Change Rating)	0.1861732	--
DT-EER (Drive Trace Energy Economy Rating)	0.6751661	--
DT-IWRR (Drive Trace Inertia Work Ratio Rating)	0.3773468	--
MFR FE (Manufacturer Fuel Economy)	25.5592442	--
NOX (Nitrogen Oxide)	0.0791985	--
HC-NM (Non-methane Hydrocarbon)	0.0327302	--
NMOG (Non-methane organic gas (California))	0.0327302	--
PM (Particulate Matter)	0	--
HC-TOTAL (Total Hydrocarbon)	0.0835626	--

Test Result Name	Unrounded Test Result	Verify Calculated CO2
Carbon dioxide	397.578064	--

Manufacturer Test Comments None

Certification Summary Information Report

Test Group	JGMXJ01.6356	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 Bin 125	CO	0.18	1	--	0.00 UP	--	--	0.2	99.9	Pass
Fed	150,000 miles	Federal Tier 3 Bin 125	NMOG	0.0327	1	--	0.0009 UP	--	--	0.034	99.999	Pass
Fed	150,000 miles	Federal Tier 3 Bin 125	NMOG+NOX	0.1119	1	--	0 UP	--	--	0.114	99.999	Pass
Fed	150,000 miles	Federal Tier 3 Bin 125	NOX	0.0792	1	--	0.0015 UP	--	--	0.081	99.999	Pass
CA	150,000 miles	California LEV-III ULEV125	CO	0.18	1	--	0.00 UP	--	--	0.2	99.9	Pass
CA	150,000 miles	California LEV-III ULEV125	NMOG	0.0327	1	--	0.0009 UP	--	--	0.034	99.999	Pass
CA	150,000 miles	California LEV-III ULEV125	NMOG+NOX	0.1119	1	--	0 UP	--	--	0.114	99.999	Pass
CA	150,000 miles	California LEV-III ULEV125	NOX	0.0792	1	--	0.0015 UP	--	--	0.081	99.999	Pass

Fuel Properties

Fuel Batch ID	**25783**	**Fuel Calibration Number**	**1**
Test Fuel Type	19 - Federal Cert Diesel 7-15 PPM Sulfur	**Fuel Batch Calibration Date**	06/20/2016
Fuel Batch Calibration Effective Date	06/20/2016	**Fuel Batch Calibration Ineffective Date**	06/20/2036
Carbon Weight Fraction NMHC	--	**Carbon Weight Fraction HC**	--
Exhaust Carbon Weight Fraction	--	**Fuel Methanol Volume Fraction**	--
Fuel Density (grams/cubic ft)	--	**Fuel Specific Gravity**	0.851
Fuel Ethanol Volume Percent (%)	--	**Fuel Net Heating Value (BTU / lb)**	18437
Fuel Blend Carbon Weight Fraction	0.869	**Weight Fraction CO2**	--

Fuel Batch ID	**000400**	**Fuel Calibration Number**	**8385**
Test Fuel Type	19 - Federal Cert Diesel 7-15 PPM Sulfur	**Fuel Batch Calibration Date**	09/21/2016
Fuel Batch Calibration Effective Date	09/21/2016	**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**	0.851
Fuel Ethanol Volume Percent (%)	--	**Fuel Net Heating Value (BTU / lb)**	18432
Fuel Blend Carbon Weight Fraction	0.869	**Weight Fraction CO2**	--

Certification Summary Information Report

Test Group	JGMXJ01.6356	**Evaporative/Refueling Family**	--

Consolidated List of Standards

Exhaust Standards

Cert Region	Federal	**Cert/In-Use Code**	Cert
Vehicle Class	LDV/Passenger Car	**Standard Level**	Federal Tier 3 Bin 125
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
120,000 miles	CREE	--	1	--	0	0	--	0	999.9999
120,000 miles	METHANE	--	1	--	0	0	--	--	0.080
120,000 miles	N2O	--	1	--	0	0	--	--	0.030
150,000 miles	CO	--	1	--	0.00	0.00	--	--	2.1
150,000 miles	CO-COMP	--	--	--	0	0	--	--	4.2
150,000 miles	NMOG	--	1	--	0.0009	-0.0997	--	--	99.999
150,000 miles	NMOG+NOX	--	1	--	0	0	1	--	0.125
150,000 miles	NMOG+NOX-COMP	--	--	--	0	0	--	--	0.120
150,000 miles	NOX	--	1	--	0.0015	-0.1626	--	--	99.999
150,000 miles	PM	--	1	--	0.0002	-0.0208	--	--	0.003

Cert Region	Federal	**Cert/In-Use Code**	Cert
Vehicle Class	LDV/Passenger Car	**Standard Level**	Federal Tier 3 Bin 125
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
120,000 miles	CREE	--	1	--	0	0	--	0	999.9999
150,000 miles	NMOG	--	1	--	0.0009	-0.0997	--	--	99.999
150,000 miles	NMOG+NOX	--	1	--	0	0	1	--	0.125
150,000 miles	NOX	--	1	--	0.0015	-0.1626	--	--	99.999

Certification Summary Information Report

Test Group	JGMXJ01.6356	**Evaporative/Refueling Family**	--

Cert Region	California + CAA Section 177 states	**Cert/In-Use Code**	Cert
Vehicle Class	LDV/Passenger Car	**Standard Level**	California LEV-III ULEV125
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	--	1	--	0.00	0.00	--	--	2.1
150,000 miles	CO-COMP	--	--	--	0	0	--	--	4.2
150,000 miles	NMOG	--	1	--	0.0009	-0.0997	--	--	99.999
150,000 miles	NMOG+NOX	--	1	--	0	0	1	--	0.125
150,000 miles	NMOG+NOX-COMP	--	--	--	0	0	--	--	0.120
150,000 miles	NOX	--	1	--	0.0015	-0.1626	--	--	99.999
150,000 miles	PM	--	1	--	0.0002	-0.0208	--	--	0.003

Cert Region	California + CAA Section 177 states	**Cert/In-Use Code**	Cert
Vehicle Class	LDV/Passenger Car	**Standard Level**	California LEV-III ULEV125
Fuel	Diesel	**Test Procedure**	US06

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	--	1	--	0.00	0.00	--	--	99.9
150,000 miles	NMOG	--	1	--	0.0009	-0.0997	--	--	99.999
150,000 miles	NMOG+NOX	--	1	--	0	0	1	--	99.999
150,000 miles	NOX	--	1	--	0.0015	-0.1626	--	--	99.999
150,000 miles	PM	--	1	--	0.0002	-0.0208	--	--	0.010

Cert Region	California + CAA Section 177 states	**Cert/In-Use Code**	Cert
Vehicle Class	LDV/Passenger Car	**Standard Level**	California LEV-III ULEV125
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	--	1	--	0.00	0.00	--	--	99.9
150,000 miles	NMOG	--	1	--	0.0009	-0.0997	--	--	99.999
150,000 miles	NMOG+NOX	--	1	--	0	0	1	--	99.999
150,000 miles	NOX	--	1	--	0.0015	-0.1626	--	--	99.999

Certification Summary Information Report

Test Group	JGMXJ01.6356	**Evaporative/Refueling Family**	--

Cert Region	Federal	**Cert/In-Use Code**	Cert
Vehicle Class	LDV/Passenger Car	**Standard Level**	Federal Tier 3 Bin 125
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	--	1	--	0.00	0.00	--	--	99.9
150,000 miles	NMOG	--	1	--	0.0009	-0.0997	--	--	99.999
150,000 miles	NMOG+NOX	--	1	--	0	0	1	--	99.999
150,000 miles	NOX	--	1	--	0.0015	-0.1626	--	--	99.999

Cert Region	Federal	**Cert/In-Use Code**	Cert
Vehicle Class	LDV/Passenger Car	**Standard Level**	Federal Tier 3 Bin 125
Fuel	Diesel	**Test Procedure**	US06

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	--	1	--	0.00	0.00	--	--	99.9
150,000 miles	NMOG	--	1	--	0.0009	-0.0997	--	--	99.999
150,000 miles	NMOG+NOX	--	1	--	0	0	1	--	99.999
150,000 miles	NOX	--	1	--	0.0015	-0.1626	--	--	99.999
150,000 miles	PM	--	1	--	0.0002	-0.0208	--	--	0.010

Cert Region	California + CAA Section 177 states	**Cert/In-Use Code**	Cert
Vehicle Class	LDV/Passenger Car	**Standard Level**	California LEV-III ULEV125
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	NMOG	--	1	--	0.0009	-0.0997	--	--	99.999
150,000 miles	NMOG+NOX	--	1	--	0	0	1	--	0.125
150,000 miles	NOX	--	1	--	0.0015	-0.1626	--	--	99.999

Certification Summary Information Report

Test Group	JGMXJ01.6356	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	METHANOL	CH3OH - Methanol
CO	Carbon Monoxide	N2O	Nitrous Oxide
CO2	Carbon dioxide	SPITBACK	Spitback Hydrocarbon in grams
CREE	Carbon-Related Exhaust Emissions	AMP-HRS	Integrated Amp-hours
OPT-CREE	Optional Carbon-Related Exhaust Emissions	START-SOC	System Start State of Charge Watt-hours
NOX	Nitrogen Oxide	END-SOC	System End State of Charge Watt-hours
PM	Particulate Matter	ACT-DISTANCE	Actual Distance Driven (miles)
PM-COMP	SFTP Composite Particulate Matter	AS-VOLT	Average System Voltage
HC-NM	Non-methane Hydrocarbon	CO2 BAG 1	Bag 1 Carbon Dioxide
OMHCE	Organic material Hydrocarbon Equivalent	CO2 BAG 2	Bag 2 Carbon Dioxide
OMNMHCE	Organic material non-methane HC equivalent	CO2 BAG 3	Bag 3 Carbon Dioxide
NMOG	Non-methane organic gas (California)	CO2 BAG 4	Bag 4 Carbon Dioxide
HCHO	Formaldehyde	NMOG+NOX	Non-methane organic gases plus Nitrogen Oxides
H3C2HO	Acetaldehyde	NMOG+NOX-COMP	SFTP Composite Non-methane Organic Gases + Nitrogen Oxides
HC-NM+NOX	SFTP Non-methane Hydrocarbon + Nitrogen Oxides for US06 or SC03	DT-IWRR	Drive Trace Inertia Work Ratio Rating
HC-NM+NOX-COMP	SFTP Composite Non-methane Hydrocarbon + Nitrogen Oxides	DT-ASCR	Drive Trace Absolute Speed Change Rating
CO-COMP	SFTP Composite Carbon Monoxide	DT-EER	Drive Trace Energy Economy Rating
ETHANOL	C2H5OH - Ethanol	COMB-CREE	Combined Carbon-Related Exhaust Emissions
FE BAG 1	Bag 1 Fuel Economy	COMB-OPT-CREE	Combined Optional Carbon-Related Exhaust Emissions
FE BAG 2	Bag 2 Fuel Economy	HC-TOTAL-EQUIV	Total Hydrocarbon equivalent - Evap only
FE BAG 3	Bag 3 Fuel Economy	METHANE-COMB	Combined CH4 for HD 2b/3 vehicles only
FE BAG 4	Bag 4 Fuel Economy	N2O-COMB	Combined Nitrous Oxide for HD 2b/3 vehicles only
MFR FE	Manufacturer Fuel Economy	LEAK-DIA	Effective Leak Diameter (inches)
HC	Hydrocarbon for Running Loss and ORVR	LEAK-GAS CAP	Gas Cap Leakage (cc/min)
METHANE	CH4 - Methane	CO2-COMB	Combined Carbon Dioxide for HD 2b/3 Vehicles Only

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
B5	Federal Tier 2 Bin 5	L3SULEV150	California LEV-III SULEV150

Certification Summary Information Report

Test Group	JGMXJ01.6356	**Evaporative/Refueling Family**	--
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
R	2-Wheel Drive, Rear		

Certification Summary Information Report

Test Group	JGMXJ01.6356	**Evaporative/Refueling Family**	--

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

FLEXIBLE OR ALTERNATE FUELS

There are no flexible or alternate fuels certified for this test group.

Engine Code Information

Base Engine Code	1	2	3
EC Derivatives			
Test Group	JGMXJ01.6356	JGMXJ01.6356	JGMXJ01.6356
Durability Group	JGMXDPDNNE80	JGMXDPDNNE80	JGMXDPDNNE80
Engine RPO	LH7	LH7	LH7
Disp, liters	1.6	1.6	1.6
Trans RPO	MHG	MZ4	M3D
Trans Type	A6	M6	A9
Product Code	X	B	B
Emission RPO	NTB,NUF	NTB,NUF	NTB,NUF
Emissions Category	Tier 3,ULEV125	Tier 3,ULEV125	Tier 3,ULEV125
Vehicle Type	CAR,TRUCK	CAR	CAR
Regulatory Agencies	F,C	F,C	F,C
Sales Area	FA/CA	FA/CA	FA/CA
Design Altitude	Both	Both	Both
A/C Equipped	Yes	Yes	Yes
Driver Select Device	1	1	1
Police Only	No	No	No
Horsepower @ RPM	136 @ 3750	136 @ 3750	136 @ 3750
Torque @ RPM	236 @ 2500	236 @ 2500	236 @ 2500
Emission Ctrl Sys	DFI/TC/CAC/OC/DPF/EGR/EGRC/ SCRC/NOXS(2)/PMS/RDQS	DFI/TC/CAC/OC/DPF/EGR/EGRC/ SCRC/NOXS(2)/PMS/RDQS	DFI/TC/CAC/OC/DPF/EGR/EGRC/ SCRC/NOXS(2)/PMS/RDQS
TapUp/TapDown	NO	NO	NO
Active Fuel Management	NO	NO	NO
Description	Equinox 1.6L Diesel Automatic	Cruze 1.6L Diesel Manual	Cruze 1.6L Diesel Automatic

Vehicle Parameters - Certificate Coverage

Durability Group JGMXDPDNNE80
TestGroup JGMXJ01.6356

EC	EC Der	Eng RPO	Disp	Evap Family	Evap Code	Model	Car Line	Trans Type/Code	Final Drive Ratio	GVWR	Tire	N/V	Loaded Weight Veh/DA	TWC Meth	TWC	TLHP	F0	F1	F2	RLHP RPO	Drv Sys	Note
1		LH7	1.6	--	--	1XR26	EQUINOX	A6/1	2.89	--	225/65R17 ALS MIC	26.3	3833/1751	LVW	3875	12.4	27.91	0.1840	0.02241	--	FD	1
1		LH7	1.6	--	--	1XS26	EQUINOX	A6/1	2.89	--	225/60R18 AL3 MIC	26.2	3849/1757	LVW	3875	13.1	32.24	0.1962	0.02235	--	FD	1
1		LH7	1.6	--	--	1XY26	EQUINOX AWD	A6/1	2.89	--	225/65R17 ALS BRI	26.3	3999/1915	LVW	4000	13.3	31.10	0.1971	0.02352	--	AD	1
1		LH7	1.6	--	--	1XZ26	EQUINOX AWD	A6/1	2.89	--	225/60R18 AL3 MIC	26.2	3940/1889	LVW	4000	14.0	36.22	0.1966	0.02357	--	AD	1
1		LH7	1.6	--	--	TXB26	TERRAIN AWD	A6/1	2.89	--	225/65R17 ALS BRI	26.3	4129/1910	LVW	4250	13.8	32.31	0.2033	0.02429	--	AD	1
1		LH7	1.6	--	--	TXB26	TERRAIN AWD	A6/1	2.89	--	235/50R19 AL3 HAN	26.6	4129/1910	LVW	4250	15.1	42.98	0.1783	0.02455	--	AD	1
1		LH7	1.6	--	--	TXC26	TERRAIN AWD	A6/1	2.89	--	225/60R18 AL3 MIC	26.2	4168/1934	LVW	4250	14.5	37.67	0.2022	0.02434	--	AD	1
1		LH7	1.6	--	--	TXC26	TERRAIN AWD	A6/1	2.89	--	235/50R19 AL3 HAN	26.6	4168/1934	LVW	4250	15.0	42.51	0.1806	0.02437	--	AD	1
1		LH7	1.6	--	--	TXL26	TERRAIN	A6/1	2.89	--	225/65R17 ALS MIC	26.3	3946/1789	LVW	4000	12.8	28.51	0.1865	0.02328	--	FD	1
1		LH7	1.6	--	--	TXL26	TERRAIN	A6/1	2.89	--	235/50R19 AL3 HAN	26.6	3946/1789	LVW	4000	13.9	37.35	0.1784	0.02325	--	FD	1
1		LH7	1.6	--	--	TXM26	TERRAIN	A6/1	2.89	--	225/60R18 AL3 MIC	26.2	3975/1806	LVW	4000	13.5	32.96	0.1990	0.02322	--	FD	1
1		LH7	1.6	--	--	TXM26	TERRAIN	A6/1	2.89	--	235/50R19 AL3 HAN	26.6	3975/1806	LVW	4000	13.9	37.35	0.1784	0.02325	--	FD	1
3		LH7	1.6	--	--	1BT68	CRUZE HATCHBACK	A9/3	3.17	--	205/55R16 ALS GDY	27.4	3545/2153	LVW	3500	10.7	26.48	0.1975	0.01747	-BVG	FD	1
3		LH7	1.6	--	--	1BT68	CRUZE HATCHBACK	A9/3	3.17	--	P225/40R18 AL3 MIC	27.2	3545/2153	LVW	3500	12.5	34.97	0.2166	0.01918	&BVG	FD	1
3		LH7	1.6	--	--	1BT69	CRUZE	A9/3	3.17	--	205/55R16 ALS GDY	27.4	3478/2106	LVW	3500	10.1	26.48	0.1975	0.01566	&BVG	FD	1
3		LH7	1.6	--	--	1BT69	CRUZE	A9/3	3.17	--	205/55R16 ALS GDY	27.4	3478/2106	LVW	3500	10.0	26.48	0.1975	0.01537	-BVG	FD	1
2		LH7	1.6	--	--	1BT68	CRUZE HATCHBACK	M6/2	3.65	--	P225/40R18 AL3 MIC	30.8	3463/2077	LVW	3500	12.2	32.19	0.3161	0.01745	&BVG	FD	1
2		LH7	1.6	--	--	1BT69	CRUZE	M6/2	3.65	--	205/55R16 ALS GDY	31.0	3397/2030	LVW	3375	9.6	23.08	0.2941	0.01364	-BVG	FD	1
2		LH7	1.6	--	--	1BT69	CRUZE	M6/2	3.65	--	205/55R16 ALS GDY	31.0	3397/2030	LVW	3375	9.7	23.08	0.2941	0.01394	&BVG	FD	1

GM elects to test at the next higher test weight class where applicable (reference 40CFR86.1831-01(b)(3)).

TRANSMISSION INFORMATION

Test Group ID	JGMXJ01.6356	JGMXJ01.6356	JGMXJ01.6356
Transmission Code	1	2	3
Transmission RPO	MHG	MZ4	M3D
Transmission Type	A6	M6	A9
Drive Gear Ratios	4.58,2.96,1.91,1.45,1.0,0.75	3.82, 2.05, 1.30, 0.96, 0.74, 0.61	4.69,3.31,3.01,2.45,1.92,1.45,1.00,0.75,0.62
Chain Drive Ratio	1	NA	1
Shift Calibrations	TCM Controlled	NA	TCM Controlled
Torque Converter Diameter	236	NA	228
Torque Converter Stall Torque Ratio	1.94	NA	2.1
Torque Converter Lockup RPM'S	TCM Controlled	NA	TCM Controlled
Torque Converter Stall Torque Speed	2000 @ 56	NA	3438 @ 204
Multimode Feature - # of Modes	1	1	1
Shift Indicator Light	NO	YES	NO
Description	Equinox MHG	Cruze MZ4	Cruze M3D
TapUp/TapDown	NO	NO	NO

SPECIAL TEST INSTRUCTIONS

OTHER

Drive Trace Tolerances:

The driver must attempt to follow the target schedule as closely as possible. Instantaneous speeds must stay within the following tolerances. The upper limit is 2.0 mph higher than the highest point on the trace within 1.0 s of the given point in time. The lower limit is 2.0 mph lower than the lowest point on the trace within 1.0 s of the given time.

Emission Test Vehicle Cooling Requirements:

For the federal test procedure at 75°, 50° and 20°, and a highway fuel economy test, a fixed speed fan that has a nominal capacity of 5300 cfm must be used. The fan must be placed within 12 inches of the front of the vehicle and centered on the vehicle's grill. For the US06 test, a fixed speed fan that has a nominal capacity of 15000 cfm must be used. The fan must be placed within 24 inches of the front of the vehicle and centered on the vehicle's grill. For the SC03 test, a road speed fan that has a nominal capacity of 95000 cfm at 60 mph must be used. The fan must be placed on the floor between 24 and 36 inches from the front of the vehicle.

Traction Control and Anti-Lock Braking System (ABS):

Most General Motors vehicles come equipped with an electronic traction control system and an ABS system. During dynamometer testing, these systems will detect the difference in wheel speed between the front and rear wheels, and attempt to correct it by activating ABS and changing engine operation. Therefore, before emissions testing, the systems must be disabled. The system can be disabled by removing the underhood ABS fuse. Please contact General Motors Compliance and Certification organization for instructions on which fuse(s) to remove.

Automatic Headlight Systems:

Headlight must be turned off before each emissions or fuel economy test. Please refer to the owner's manual for the location of the switch that controls the headlights.

Parking Brake:

All front wheel drive vehicles must have the parking brake set prior to any dynamometer emission testing.

ENGINE STARTING INSTRUCTIONS

Warm or Cold Engine

For vehicles using a push button start, the keyless access transmitter must be inside the vehicle for the ignition to work. To start the vehicle, do the following: With your foot on the brake pedal, press the START button located on the instrument panel. When the engine begins cranking, let go of the button and the engine cranks automatically until it starts.

Reference Owner's Manual for complete starting instructions.

SHIFT SCHEDULES

	Shift Schedule				Recommended Shift Speeds (mph)				
Trans Code	FTP	Hwy	SC03	US06*1	1-2	2-3	3-4	4-5	5-6
2	621	622	589	590	12.8	24.7	35.6	41.0	47.4

*1 The speeds and acceleration rates encountered in the US06 driving schedule may require shift speeds different from the other schedules.

NA – Not Applicable

General Motors

General Motors LLC
Compliance & Certification
MC 483-331-500
Milford Proving Ground
3300 General Motors Road
Milford, Michigan 48380-3726

February 13, 2017 JP032

Mr. D. Wright
U.S. Environmental Protection Agency
Office of Transportation & Air Quality
Certification & Compliance Division
2000 Traverwood Drive
Ann Arbor, MI 48105

Dear Mr. Wright:

Subject: Request for Certificate of Conformity - 2018 General Motors Test Group JGMXJ01.6356

General Motors requests that the EPA issue a certificate of conformity for the subject test group. GM requests the EPA review this request to expedite your final approval of the certificate of conformity for the subject test group.

GM requests that the confidential information contained within this Part 1 Application, or subsequently submitted for inclusion in this application, which is of a type described in EPA, General Council Class Determination 2-80, be accorded confidential treatment for the time periods specified in this Class Determination.

GM believes that the test group complies with all applicable regulations contained within Title 40 of the CFR, California Amendments to Subparts B, C, and S, Part 86 and Part 88, Title 40 of the CFR, and Title 13 of the California Code of Regulations.

Please review this information as soon as possible and call if you should have any questions regarding this request for a certificate of conformity.

Sincerely,

R. J. Vito

R. J. Vito
Total Compliance Engineer
Compliance & Certification

RJV/SED/ks
Attachments

General Motors

General Motors LLC
Compliance & Certification
MC 483-331-500
Milford Proving Ground
3300 General Motors Road
Milford, Michigan 48380-3726

February 13, 2017 JP033

Ms. A. Hebert, Chief
Emissions Compliance, Automotive Regulations & Science Div.
Air Resources Board
9480 Telstar Avenue, Suite 4
El Monte, CA 91731

Dear Ms. Hebert:

Subject: Request for Executive Order - 2018 General Motors Test Group JGMXJ01.6356

General Motors requests that the CARB issue an executive order for the subject test group.

GM requests that the confidential information contained within this Part 1 Application, or subsequently submitted for inclusion in this application, which is of a type described in EPA, General Council Class Determination 2-80, be accorded confidential treatment for the time periods specified in this Class Determination.

GM believes that the test group complies with all applicable regulations contained within Title 40 of the CFR, California Amendments to Subparts B, C and S, Part 86, Title 40 of the CFR, and Title 13 of the California Code of Regulations.

The EPA certificate of conformity for this test group will be forwarded to you when it becomes available.

Based upon our review prior to submitting the application for certification and to the best of our current information and belief, the GM vehicles described in this request for executive order do not employ defeat devices, and do not use alternative maps or AECDs that have not been declared. We are submitting this statement to you in good faith. If, in the future, we identify any new relevant information, we will notify CARB in a timely fashion.

Please review this information as soon as possible and call if you have any questions regarding this request for an executive order.

Sincerely,

R. J. Vito

R. J. Vito
Total Compliance Engineer
Compliance & Certification

RJV/SED/ks
Attachments

EMISSION DATA RATIOS

	Data Ratios
NMHC (G/MI) *1	NA
NMOG (G/MI) *2	NA
HCHO (G/MI) *3	NA
NMOG:NMHC *2	1.00
HCHO:NMHC *2	NA

*1 NMHC includes methane response factor.

*2 Effective with the 2004 model year, both EPA and CARB have, through regulatory change, established an industry 1.04 NMHC to NMOG factor which can be used for cert testing for all gasoline tests (does not apply to alcohol fuels).

*3 HCHO requirements will now be met by a compliance statement for both EPA and CARB (does not apply to alcohol fuels).

*** VEHICLE INFORMATION ***

Model Year	2018	**Certifying Agent**	GM
Test Vehicle	161JLV8006	**GM Config**	001
		Run Date	02/20/2017 12:34:08

VEHICLE NO:	161JLV8006	**CONFIGURATION NO:**	001	**EPA VERSION NO:**	00		
				ORIGINAL CERT YEAR:	2018		
ENG FAM/TEST GRP:	JGMXJ01.6356	**ENGINE CODE:**	1				
EVAP FAMILY:	NA	**EVAP CODE:**	NA				
TEST PURPOSE:	DATA	**DISPL:**	1.6	**SALES LOC:**	BOTH		
VEH TYPE: FED=	PC	**CAL=**	PC	**EMIS CATEGORY: FED=**	BIN125080	**CAL=**	ULEV125
DURA GRP:	JGMXDPDNNE80	**DURA VEH NO:**		**DURA CONFIG:**			
FUEL METER:	DI DIESEL	**BOOST TYPE:**		**VALVES PER CYL:**	4		

TRANS: TYPE=	A6	**CODE=** 1	**MODE=** Normal	**SIL EQUIPPED:**	No	**SIL VERSION:**	N/A
SHIFT SCHEDULE:	N/A	**SHIFT SCHED NO:**					
EVAP CANISTER SIZE(L):							
TANK CAPACITY (GAL): PRIM=	13.7	**AUX=**				**PRIMARY FUEL:**	DIES
PREMIUM FUEL RECOM'D:	N	**USAGE: F=**	FA	**C=**	CA		
DYNAMOMETER DRIVE AXLE:	F						
TIRE PRESS(PSI): FRT=	35	**REAR=**	35	**A/C EQ:**	Y		
68d ROADLOAD: F0=	42.98	**F1=** 0.1783		**F2=** 0.02455		**TRLHP 68d:**	15.1
20d ROADLOAD: F0=	47.28	**F1=** 0.1961		**F2=** 0.02701		**TRLHP 20d:**	16.6

WEIGHTS (LBS):				**TIRES:**			
ETW: 4250	**EPA CURB:** 3829	**GVWR:**	4850	**VENDOR:**	HAN	**SIZE:**	P235/50R19
				TREAD TYPE:	AL3		
	CURB WEIGHT/TEST WT CLASS TYPE	**DRIVE AXLE**					
DESIGN:	3829/LVW	2219					

REP VEH MODEL:	TXB26	**FIN DR RATIO:**	2.89	**N/V:**	26.6	**ENG RPO:**	LH7
ACTUAL MODEL NO:	1XR26						
RATED HP:	136	**TCC:**	Y				
OVERDRIVE:	Y	**CREEPER:**	N	**PS:**	YES	**PB:**	YES
MODE LINK CONFS:		**C/O CONF:**		**SIL LINK CONF:**			
ZERO-MILE ODO:	0	**ODO CORR:**	1.00				

COMMENTS

86.1844(b)

Chevrolet Cruze LH7 &NTB/NUF:

Chevrolet Equinox LH7 &NTB/NUF:

GMC Terrain LH7 &NTB/NUF:

JGMXJ01.6356 UAF/DAF Calculations

Fractional number of FTP72 tests to fill device:	107.38
Whole number of FTP72 tests with regen emissions:	1
Regen Frequency F:	0.009

	NMOG	CO	NOX	PM	Test Number	Test Type
EFH	0.1537	0.33	0.2371	0.0219	MS02024799	9102
EFL	0.0531	0.79	0.073	0.0009	MS02024812	9102
EFA	0.054	0.79	0.0745	0.0011	--	--
UAF	0.0009	0.00	0.0015	0.0002	--	--
DAF	-0.0997	0.00	-0.1626	-0.0208	--	--

Test Vehicle: 161JLV8006