APPLICATION FOR CERTIFICATION

2016 MODEL YEAR

Durability Group:	GGMXDPDNNE84
Test Group:	GGMXT02.8358
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:	15OBDG04
Test Group Description:	2.8L L4
Applicable Standards:	California and Federal TRUCK BIN5/ULEV125
Carlines Covered by Evaporative Family:	2.8L GMC CANYON 2WD GMC CANYON 4WD Chevrolet COLORADO 2WD Chevrolet COLORADO 4WD --
Vehicles Tested:	28SPGV1249
For Questions, Contact:	R. J. Vito (248-520-2143)

TABLE OF CONTENTS

Part 1

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
Section 86.1844(d)(9)	OBD System Description (Refer to Common Section)
Section 86.1844(d)(10)	Description of Flexible and Alternate-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 (Included in Initial Application only)
Section 86.1844(d)(14)	Request Letter(s)
Section 86.1844(b)	Additional Information
Section 86.1817-05	Complete Heavy-Duty Chassis-Certified Vehicle Averaging, Trading and Banking Program (Refer to Common Section) (Included in initial Application for Heavy Duty only)
Section 86.1037.205(c)	Air Conditioning System Leakage (Heavy Duty Vehicles Only)

Part 2 (Included in Mid-Model Year and Final Applications only)

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 Families Only)

TEST VEHICLE DESCRIPTION

	Durability Vehicle Selection	Emission-Data Vehicle Selection
Test Group		GGMXT02.8358
Evaporative Family		NA – Diesel
Displacement – Liters		2.8L
Engine Code		1
Emission Control System		
Exhaust		CAC/TC/DFI/OC(2)/DPF/SCRC/ EGR/EGRC/NOXS(2)/PMS
Evap		NA
Model		T2V43+NQ6
Transmission Type/Code		A6/1 (MYB)
Shift Schedule		NA
(LVW/ALVW) Test Weight – Lbs		5250 LVW
GVWR		6000
Roadload HP		20.3
Final Drive		3.42
N/V Ratio – rpm/mph		25.9
Tires		265/65R17 AT
Vehicle/EPA Config No./GM Config No.		
FTP & HWFE		28SPGV1249/00/002
US06		28SPGV1249/00/002
SC03		28SPGV1249/00/002
20° CO		28SPGV1249/00/002

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.

2016 EMISSION STANDARDS

BIN 5 (LDT2 DIESEL)

TEST GROUP NAME: GGMXT02.8358

CERTIFICATION AND IN-USE STANDARDS

LOW AND HIGH ALTITUDE:

	FTP							HWY TEST
	NMOG	CO	NOx	HCHO	PM	CH4	N2O	NOx
150K STD	0.090	4.2	0.07	0.018	0.01	0.030	0.030	0.09
CERT 150K DF	NA-Aged Components							

SFTP - LOW ALTITUDE ONLY:

	US06 NMHC+NOx	US06 CO	SC03 NMHC+NOx	SC03 CO	COMP *1 NMHC+NOx	COMP *1 PM
4K STD	0.25	10.5	0.27	3.5	NA	0.07
150K STD	NA	14.6	NA	4.9	0.95	0.07

*1 Composite Standard for NMHC+NOx and PM = 35%FTP = 28%US06 + 37%SC03

2016 EMISSION STANDARDS

ULEV125 LDT2 DIESEL ≤ 6000 GVW

TEST GROUP NAME: GGMXT02.8358

CERTIFICATION STANDARDS

LOW AND HIGH ALTITUDE:

FTP/HWY:

STD/DF (MILEAGE)	NMOG+NOx	CO	PM	HCHO	HWY TEST NMOG+NOx
STD (150K)	0.125	2.1	0.01	0.004	0.125
DF (150K)	NA-Aged Components				

SFTP LOW ALTITUDE:

	COMPOSITE *1	
	NMOG+NOx	CO
STD (150K)	0.120	4.2

INTERIM IN-USE SFTP STANDARDS

	SFTP COMP *1*2 NMOG+NOx
STD (150K)	0.168

*1 Composite standard for NMOG+NOx and CO = 35%FTP + 28%US06 + 37%SC03

*2 Used only for the first two model years a test group is certified to LEV III standards

Certification Summary Information Report

Manufacturer	General Motors LLC	**Manufacturer Code**	GMX
Test Group	GGMXT02.8358	**Evaporative/Refueling Family**	N/A
Certificate Number	N/A	**CARB Executive Order #**	N/A
Certificate Issue Date	N/A	**Certificate Revision Date**	N/A
Certificate Effective Date	N/A	**Conditional Certificate**	--
CSI Revision #	N/A	**CSI Submission/Revision Date**	09/21/2015
Model Year	2016		

Test Group Information

CSI Type	Update for Correction	**Running Change Reference Number**	N/A
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	Direct Diesel Injection (non-common rail)	--

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**	LDT2
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	GGMXDPDNNE84	**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 2	**SFTP Tier 2 Composite CO Option**	No
SFTP LEV-III Composite Compliance Indicator	Yes		
OBD Compliance Type	CARB	**OBD Demonstration Vehicle Test Group**	GGMXT02.8358
Mfr Test Group Comments	--		
Mfr Exhaust / Evap Standards Comments	--		

Certification Summary Information Report

Test Group	GGMXT02.8358	**Evaporative/Refueling Family**	N/A

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	936 - CANYON 2WD	Federal	2-Wheel Drive, Rear	Automatic	6	Yes
General Motors LLC	4 - GMC	937 - CANYON 4WD	Federal	4-Wheel Drive	Automatic	6	Yes
General Motors LLC	4 - GMC	937 - CANYON 4WD	California + CAA Section 177 states	4-Wheel Drive	Automatic	6	Yes
General Motors LLC	3 - Chevrolet	964 - COLORADO 2WD	California + CAA Section 177 states	2-Wheel Drive, Rear	Automatic	6	Yes
General Motors LLC	3 - Chevrolet	964 - COLORADO 2WD	Federal	2-Wheel Drive, Rear	Automatic	6	Yes
General Motors LLC	3 - Chevrolet	965 - COLORADO 4WD	California + CAA Section 177 states	4-Wheel Drive	Automatic	6	Yes
General Motors LLC	4 - GMC	936 - CANYON 2WD	California + CAA Section 177 states	2-Wheel Drive, Rear	Automatic	6	Yes
General Motors LLC	3 - Chevrolet	965 - COLORADO 4WD	Federal	4-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		

After Treatment Device(s) (ATD)

ATD Number	ATD Type	ATD Precious Metal	Substrate Material	Substrate Construction
1	Oxidation catalyst	Platinum + Paladium	Ceramic	Monolith
2	Oxidation catalyst	Platinum + Paladium	Ceramic	Monolith
3	Selective Catalytic Reduction	NO PGM	Ceramic	Monolith
4	Diesel Particulate Filter	Platinum + Paladium	Ceramic	Monolith

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

Certification Summary Information Report

Test Group	GGMXT02.8358	**Evaporative/Refueling Family**	N/A

Engine Configuration Number 1

Engine Displacement (liters)	2.8	**Engine Rated Horsepower**	181
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 Description	N/A		
Variable Valve Timing System Description	N/A	**Variable Valve Lift System**	N/A
Number of Knock Sensors	0		
Air/Fuel Sensor # 1 Type	Nitrogen oxide	**Air/Fuel Sensor # 1 Description**	N/A
Mfr Air/Fuel Sensor Comments	--		
Exhaust Gas Recirculation	Yes	**EGR Type**	Electronic/Electric
Cooled Exhaust Gas Recirculation	Yes		
Closed Loop Air Injection System	--	**Air Injection Type**	--
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	GGMX10038607	GGMX10038609	GGMX10038610	GGMX10038611	GGMX10038608	19.4	18.2	26.3	24.6	N/A

SFTP LEV-III Official Test Numbers

Test Group Fuel	FTP	US06	SC03
Diesel	GGMX10038607	GGMX10038609	GGMX10038610

Certification Summary Information Report

Test Group	GGMXT02.8358	**Evaporative/Refueling Family**	N/A

Emission Data Vehicle Information

Vehicle ID / Configuration 28SPGV1249 / 0

Vehicle Model

Represented Test Vehicle Make	GMC	**Represented Test Vehicle Model**	CANYON 4WD

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	N		
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	--		
Transmission Type	Automatic	**# of Transmission Gears**	6
Engine Code	1	**Axle Ratio**	3.42
Displacement (liters)	2.8	**Rated Horsepower**	181
Equivalent Test Weight (pounds)	5250	**Air Aspiration Method**	Turbocharged
Drive Mode While Testing	2-Wheel Drive, Rear	**SIL Usage**	Not eqipped
Aged Emission Components	150,000 (mi)		

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	54.43	0.6312	0.0266	29.62	0.1693	0.02863	20.3
Cold CO	59.87	0.6943	0.02926	31.67	0.0256	0.03298	N/A
US06	54.43	0.6312	0.0266	29.62	0.1693	0.02863	N/A

Manufacturer Test Vehicle Comments 150K TEST POINT

Certification Summary Information Report

Test Group	GGMXT02.8358	**Evaporative/Refueling Family**	N/A
Test #	**GGMX10038607**	**Test Procedure**	**2 - CVS 75 and later (w/o can. load)**
Exhaust Test # for this Evap Test	N/A	**Test Fuel Type**	19 - Federal Cert Diesel 7-15 PPM Sulfur
Test Date	08/05/2015	**Fuel**	Diesel
Vehicle Class	LDT2 (LVW 3751-5750, GVW 0-6000)	**DF Type**	Aged components installed In the emission data vehicle
Verify Test Lab ID	Milford		
E10 Evaporative Test Measurement Method	--		

Test Results

Test Result Name	Unrounded Test Result	Verify Calculated FE MPG Equivalent Value
Bag 1 Carbon Dioxide	449	--
Bag 1 Fuel Economy	22.6	22.6
Bag 2 Carbon Dioxide	439	--
Bag 2 Fuel Economy	23.2	23.2
Bag 3 Carbon Dioxide	383	--
Bag 3 Fuel Economy	26.6	26.6
CH4 - Methane	0.0179184	--
Carbon Monoxide	0.0491973	--
Drive Trace Absolute Speed Change Rating	2.11158	--
Drive Trace Energy Economy Rating	-0.567635	--
Drive Trace Inertia Work Ratio Rating	3.15896	--
Manufacturer Fuel Economy	23.9	23.9
Nitrogen Oxide	0.0302708	--
Nitrous Oxide	0.016	--
Non-methane Hydrocarbon	0.0058539	--
Non-methane organic gas (California)	0.0058539	--
Particulate Matter	0.0002	--
Total Hydrocarbon	0.0227575	--

Test Result Name	Unrounded Test Result	Verify Calculated CREE/OPT-CREE
Carbon-Related Exhaust Emissions	426	426

Test Result Name	Unrounded Test Result	Verify Calculated CO2
Carbon dioxide	426	--

Manufacturer Test Comments 150K EMIS TEST

Certification Summary Information Report

Test Group GGMXT02.8358 **Evaporative/Refueling Family** N/A

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 2 Bin 5	CO	0.05	1	--	0.01 UP	--	--	0.1	4.2	Pass
Fed	150,000 miles	Federal Tier 2 Bin 5	CREE	426	1	--	0.00 UP	0	--	426	--	--
Fed	150,000 miles	Federal Tier 2 Bin 5	HC-NM	0.0059	--	--	0.0006 UP	--	--	0.006	99.999	Pass
Fed	150,000 miles	Federal Tier 2 Bin 5	HC-NM+NOX-COMP	0.063	--	--	0.000 UP	--	--	0.06	0.95	Pass
Fed	150,000 miles	Federal Tier 2 Bin 5	METHANE	0.0179	1	--	0.00 UP	--	--	0.018	0.030	Pass
Fed	150,000 miles	Federal Tier 2 Bin 5	N2O	0.0160	1	--	0.00 UP	--	--	0.016	0.030	Pass
Fed	150,000 miles	Federal Tier 2 Bin 5	NMOG	0.0059	1	1	0.0006 UP	--	--	0.006	0.090	Pass
Fed	150,000 miles	Federal Tier 2 Bin 5	NOX	0.030	1	--	0.004 UP	--	--	0.03	0.07	Pass
Fed	150,000 miles	Federal Tier 2 Bin 5	PM	0.000	1	--	0.000 UP	--	--	0.00	0.01	Pass
Fed	150,000 miles	Federal Tier 2 Bin 5	PM-COMP	0.000	--	--	0.000 UP	--	--	0.00	0.07	Pass
CA	150,000 miles	California LEV-III ULEV125	CO	0.05	1	--	0.01 UP	--	--	0.1	2.1	Pass
CA	150,000 miles	California LEV-III ULEV125	CO-COMP	0.04	--	--	0.000 UP	--	--	0.0	4.2	Pass
CA	150,000 miles	California LEV-III ULEV125	NMOG	0.0059	1	1	0.0006 UP	--	--	0.006	99.999	Pass
CA	150,000 miles	California LEV-III ULEV125	NMOG+NOX	0.0362	1	--	0.00 UP	--	--	0.041	0.125	Pass
CA	150,000 miles	California LEV-III ULEV125	NMOG+NOX-COMP	0.0630	--	--	0.000 UP	--	--	0.063	0.120	Pass
CA	150,000 miles	California LEV-III ULEV125	NOX	0.0303	1	--	0.004 UP	--	--	0.034	99.999	Pass
CA	150,000 miles	California LEV-III ULEV125	PM	0.000	1	--	0.000 UP	--	--	0.00	0.01	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	GGMXT02.8358	**Evaporative/Refueling Family**	N/A

Test #	**GGMX10038611**	**Test Procedure**	**11 - Cold CO**
Exhaust Test # for this Evap Test	N/A	**Test Fuel Type**	19 - Federal Cert Diesel 7-15 PPM Sulfur
Test Date	09/10/2015	**Fuel**	N/A
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 Results

Test Result Name	Unrounded Test Result	Verify Calculated FE MPG Equivalent Value
Bag 1 Carbon Dioxide	586	--
Bag 1 Fuel Economy	17.3	17.3
Bag 2 Carbon Dioxide	480	--
Bag 2 Fuel Economy	21.2	21.2
Bag 3 Carbon Dioxide	398	--
Bag 3 Fuel Economy	25.6	25.6
CH4 - Methane	0.0150301	--
Carbon Monoxide	0.11518	--
Drive Trace Absolute Speed Change Rating	2.35748	--
Drive Trace Energy Economy Rating	0.34473	--
Drive Trace Inertia Work Ratio Rating	4.02932	--
Manufacturer Fuel Economy	21.2	21.2
Nitrogen Oxide	0.114972	--
Non-methane Hydrocarbon	0.0085636	--
Non-methane organic gas (California)	0.0085636	--
Total Hydrocarbon	0.022863	--

Test Result Name	Unrounded Test Result	Verify Calculated CO2
Carbon dioxide	479.5	--

Manufacturer Test Comments 150K COLD TEST

Certification Summary Information Report

Test Group	GGMXT02.8358	**Evaporative/Refueling Family**	N/A

Test #	**GGMX10038608**	**Test Procedure**	**3 - HWFE**
Exhaust Test # for this Evap Test	N/A	**Test Fuel Type**	19 - Federal Cert Diesel 7-15 PPM Sulfur
Test Date	08/05/2015	**Fuel**	Diesel
Vehicle Class	LDT2 (LVW 3751-5750, GVW 0-6000)	**DF Type**	Aged components installed In the emission data vehicle
Verify Test Lab ID	Milford		
E10 Evaporative Test Measurement Method	--		

Test Results

Test Result Name	Unrounded Test Result	Verify Calculated FE MPG Equivalent Value
CH4 - Methane	0.0027891	--
Carbon Monoxide	0.0068775	--
Drive Trace Absolute Speed Change Rating	6.48444	--
Drive Trace Energy Economy Rating	0.132743	--
Drive Trace Inertia Work Ratio Rating	7.93193	--
Formaldehyde	0.000219	--
Manufacturer Fuel Economy	36.1	36.1
Nitrogen Oxide	0.0096485	--
Non-methane Hydrocarbon	0.0054751	--
Non-methane organic gas (California)	0.0054751	--
Total Hydrocarbon	0.0081024	--

Test Result Name	Unrounded Test Result	Verify Calculated CREE/OPT-CREE
Carbon-Related Exhaust Emissions	282	282

Test Result Name	Unrounded Test Result	Verify Calculated CO2
Carbon dioxide	282.2	--

Manufacturer Test Comments 150K HWFE TEST

Certification Summary Information Report

Test Group	GGMXT02.8358	Evaporative/Refueling Family	N/A

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 2 Bin 5	CREE	282	--	--	0.000 UP	0	--	282	--	--
Fed	150,000 miles	Federal Tier 2 Bin 5	NOX	0.010	1	--	0.004 UP	--	--	0.01	0.09	Pass
CA	150,000 miles	California LEV-III ULEV125	NMOG	0.0055	1	1	0.0006 UP	--	--	0.006	99.999	Pass
CA	150,000 miles	California LEV-III ULEV125	NMOG+NOX	0.0151	1	--	0.00 UP	--	--	0.020	0.125	Pass
CA	150,000 miles	California LEV-III ULEV125	NOX	0.0096	1	--	0.004 UP	--	--	0.014	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	GGMXT02.8358	**Evaporative/Refueling Family**	N/A

Test #	**GGMX10038609**	**Test Procedure**	**90 - US06**
Exhaust Test # for this Evap Test	N/A	**Test Fuel Type**	19 - Federal Cert Diesel 7-15 PPM Sulfur
Test Date	08/05/2015	**Fuel**	Diesel
Vehicle Class	LDT2 (LVW 3751-5750, GVW 0-6000)	**DF Type**	Aged components installed In the emission data vehicle
Verify Test Lab ID	Milford		
E10 Evaporative Test Measurement Method	--		

Test Results

Test Result Name	Unrounded Test Result	Verify Calculated FE MPG Equivalent Value
Bag 1 Carbon Dioxide	616	--
Bag 1 Fuel Economy	16.5	16.5
Bag 2 Carbon Dioxide	358	--
Bag 2 Fuel Economy	28.4	28.4
CH4 - Methane	0.0007397	--
Carbon Monoxide	0.0102393	--
Drive Trace Absolute Speed Change Rating	-3.20193	--
Drive Trace Energy Economy Rating	-1.50023	--
Drive Trace Inertia Work Ratio Rating	-5.17631	--
Formaldehyde	0	--
Manufacturer Fuel Economy	24.5	24.5
Nitrogen Oxide	0.138875	--
Non-methane Hydrocarbon	0.007398	--
Non-methane organic gas (California)	0.007398	--
Particulate Matter	0.00032	--
SFTP Non-methane Hydrocarbon + Nitrogen Oxides for US06 or SC03	0.146	--
Total Hydrocarbon	0.0080913	--

Test Result Name	Unrounded Test Result	Verify Calculated CO2
Carbon dioxide	415	--

Manufacturer Test Comments 150K US06 TEST

Certification Summary Information Report

Test Group	GGMXT02.8358	Evaporative/Refueling Family	N/A

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	4,000 miles	Federal Tier 2 Bin 5	CO	0.01	1	--	0.01 UP	--	--	0.0	10.5	Pass
Fed	4,000 miles	Federal Tier 2 Bin 5	HC-NM	0.0074	--	--	0.0006 UP	--	--	0.008	99.999	Pass
Fed	4,000 miles	Federal Tier 2 Bin 5	HC-NM+NOX	0.146	1	--	0.00 UP	--	--	0.15	0.25	Pass
Fed	4,000 miles	Federal Tier 2 Bin 5	NOX	0.1389	--	--	0.004 UP	--	--	0.143	99.999	Pass
Fed	150,000 miles	Federal Tier 2 Bin 5	CO	0.01	1	--	0.01 UP	--	--	0.0	14.6	Pass
Fed	150,000 miles	Federal Tier 2 Bin 5	HC-NM	0.0074	--	--	0.0006 UP	--	--	0.008	99.999	Pass
Fed	150,000 miles	Federal Tier 2 Bin 5	NOX	0.1389	--	--	0.004 UP	--	--	0.143	99.999	Pass
Fed	150,000 miles	Federal Tier 2 Bin 5	PM	0.0003	--	--	0.000 UP	--	--	0.000	99.999	Pass
CA	150,000 miles	California LEV-III ULEV125	CO	0.01	1	--	0.01 UP	--	--	0.0	99.9	Pass
CA	150,000 miles	California LEV-III ULEV125	NMOG	0.0074	1	--	0.0006 UP	--	--	0.008	99.999	Pass
CA	150,000 miles	California LEV-III ULEV125	NMOG+NOX	0.1463	1	--	0.00 UP	--	--	0.151	99.999	Pass
CA	150,000 miles	California LEV-III ULEV125	NOX	0.1389	1	--	0.004 UP	--	--	0.143	99.999	Pass

Certification Summary Information Report

Test Group	GGMXT02.8358	**Evaporative/Refueling Family**	N/A

Test #	**GGMX10038610**	**Test Procedure**	**95 - SC03**
Exhaust Test # for this Evap Test	N/A	**Test Fuel Type**	19 - Federal Cert Diesel 7-15 PPM Sulfur
Test Date	08/07/2015	**Fuel**	Diesel
Vehicle Class	LDT2 (LVW 3751-5750, GVW 0-6000)	**DF Type**	Aged components installed In the emission data vehicle
Verify Test Lab ID	Milford		
E10 Evaporative Test Measurement Method	--		

Test Results

Test Result Name	Unrounded Test Result	Verify Calculated FE MPG Equivalent Value
CH4 - Methane	0.0117387	--
Carbon Monoxide	0.0508587	--
Drive Trace Absolute Speed Change Rating	0.139876	--
Drive Trace Energy Economy Rating	-0.491799	--
Drive Trace Inertia Work Ratio Rating	0.357753	--
Formaldehyde	0	--
Manufacturer Fuel Economy	21.5	21.5
Nitrogen Oxide	0.0252429	--
Non-methane Hydrocarbon	0.000005	--
Non-methane organic gas (California)	0.000005	--
Particulate Matter	0	--
SFTP Non-methane Hydrocarbon + Nitrogen Oxides for US06 or SC03	0.025	--
Total Hydrocarbon	0.000005	--

Test Result Name	Unrounded Test Result	Verify Calculated CO2
Carbon dioxide	473.5	--

Manufacturer Test Comments 150K SC03 TEST

Certification Summary Information Report

Test Group	GGMXT02.8358	Evaporative/Refueling Family	N/A

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	4,000 miles	Federal Tier 2 Bin 5	CO	0.05	1	--	0.01 UP	--	--	0.1	3.5	Pass
Fed	4,000 miles	Federal Tier 2 Bin 5	HC-NM	0.0000	--	--	0.0006 UP	--	--	0.001	99.999	Pass
Fed	4,000 miles	Federal Tier 2 Bin 5	HC-NM+NOX	0.025	1	--	0.00 UP	--	--	0.02	0.27	Pass
Fed	4,000 miles	Federal Tier 2 Bin 5	NOX	0.0252	--	--	0.004 UP	--	--	0.029	99.999	Pass
Fed	150,000 miles	Federal Tier 2 Bin 5	CO	0.05	1	--	0.01 UP	--	--	0.1	4.9	Pass
Fed	150,000 miles	Federal Tier 2 Bin 5	HC-NM	0.0000	--	--	0.0006 UP	--	--	0.001	99.999	Pass
Fed	150,000 miles	Federal Tier 2 Bin 5	NOX	0.0252	--	--	0.004 UP	--	--	0.029	99.999	Pass
Fed	150,000 miles	Federal Tier 2 Bin 5	PM	0.0000	--	--	0.000 UP	--	--	0.000	99.999	Pass
CA	150,000 miles	California LEV-III ULEV125	CO	0.05	1	--	0.01 UP	--	--	0.1	99.9	Pass
CA	150,000 miles	California LEV-III ULEV125	NMOG	0.0000	1	--	0.0006 UP	--	--	0.001	99.999	Pass
CA	150,000 miles	California LEV-III ULEV125	NMOG+NOX	0.0252	1	--	0.00 UP	--	--	0.030	99.999	Pass
CA	150,000 miles	California LEV-III ULEV125	NOX	0.0252	1	--	0.004 UP	--	--	0.029	99.999	Pass

Test Group	GGMXT02.8358	**Evaporative/Refueling Family**	N/A

Consolidated List of Standards

Exhaust Standards

Cert Region	Federal	**Cert/In-Use Code**	Cert
Vehicle Class	LDT2 (LVW 3751-5750, GVW 0-6000)	**Standard Level**	Federal Tier 2 Bin 5
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
4,000 miles	CO	--	1	--	0.01	0.45	--	--	10.5
4,000 miles	HC-NM	--	--	--	0.0006	0.0472	--	--	99.999
4,000 miles	HC-NM+NOX	--	1	--	0.00	0.00	--	--	0.25
4,000 miles	NOX	--	--	--	0.004	0.322	--	--	99.999
150,000 miles	CO	--	1	--	0.01	0.45	--	--	14.6
150,000 miles	HC-NM	--	--	--	0.0006	0.0472	--	--	99.999
150,000 miles	NOX	--	--	--	0.004	0.322	--	--	99.999
150,000 miles	PM	--	--	--	0.000	0.004	--	--	99.999

Cert Region	California + CAA Section 177 states	**Cert/In-Use Code**	Cert
Vehicle Class	LDT2 (LVW 3751-5750, GVW 0-6000)	**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	--	0.01	0.45	--	--	2.1
150,000 miles	CO-COMP	--	--	--	0.000	0.000	--	--	4.2
150,000 miles	HCHO	--	1	0.04	0.00	0.00	--	--	0.004
150,000 miles	NMOG	--	1	1	0.0006	0.0472	--	--	99.999
150,000 miles	NMOG+NOX	--	1	--	0.00	0.00	1	--	0.125
150,000 miles	NMOG+NOX-COMP	--	--	--	0.000	0.000	--	--	0.120
150,000 miles	NOX	--	1	--	0.004	0.322	--	--	99.999
150,000 miles	PM	--	1	--	0.000	0.004	--	--	0.01

Certification Summary Information Report

Test Group	GGMXT02.8358	**Evaporative/Refueling Family**	N/A

Cert Region	Federal	**Cert/In-Use Code**	Cert
Vehicle Class	LDT2 (LVW 3751-5750, GVW 0-6000)	**Standard Level**	Federal Tier 2 Bin 5
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	--	0.01	0.45	--	--	4.2
150,000 miles	CREE	--	1	--	0.00	0.00	--	0	999.9999
150,000 miles	HC-NM	--	--	--	0.0006	0.0472	--	--	99.999
150,000 miles	HC-NM+NOX-COMP	--	--	--	0.000	0.000	--	--	0.95
150,000 miles	HCHO	--	1	0.04	0.00	0.00	--	--	0.018
150,000 miles	METHANE	--	1	--	0.00	0.00	--	--	0.030
150,000 miles	N2O	--	1	--	0.00	0.00	--	--	0.030
150,000 miles	NMOG	--	1	1	0.0006	0.0472	--	--	0.090
150,000 miles	NOX	--	1	--	0.004	0.322	--	--	0.07
150,000 miles	PM	--	1	--	0.000	0.004	--	--	0.01
150,000 miles	PM-COMP	--	--	--	0.000	0.000	--	--	0.07

Cert Region	California + CAA Section 177 states	**Cert/In-Use Code**	Cert
Vehicle Class	LDT2 (LVW 3751-5750, GVW 0-6000)	**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	1	0.0006	0.0472	--	--	99.999
150,000 miles	NMOG+NOX	--	1	--	0.00	0.00	1	--	0.125
150,000 miles	NOX	--	1	--	0.004	0.322	--	--	99.999

Cert Region	Federal	**Cert/In-Use Code**	Cert
Vehicle Class	LDT2 (LVW 3751-5750, GVW 0-6000)	**Standard Level**	Federal Tier 2 Bin 5
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	CREE	--	--	--	0.000	0.000	--	0	999.9999
150,000 miles	NOX	--	1	--	0.004	0.322	--	--	0.09

Certification Summary Information Report

Test Group	GGMXT02.8358	**Evaporative/Refueling Family**	N/A

Cert Region	California + CAA Section 177 states	**Cert/In-Use Code**	Cert
Vehicle Class	LDT2 (LVW 3751-5750, GVW 0-6000)	**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	--	0.01	0.45	--	--	99.9
150,000 miles	NMOG	--	1	--	0.0006	0.0472	--	--	99.999
150,000 miles	NMOG+NOX	--	1	--	0.00	0.00	1	--	99.999
150,000 miles	NOX	--	1	--	0.004	0.322	--	--	99.999

Cert Region	Federal	**Cert/In-Use Code**	Cert
Vehicle Class	LDT2 (LVW 3751-5750, GVW 0-6000)	**Standard Level**	Federal Tier 2 Bin 5
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
4,000 miles	CO	--	1	--	0.01	0.45	--	--	3.5
4,000 miles	HC-NM	--	--	--	0.0006	0.0472	--	--	99.999
4,000 miles	HC-NM+NOX	--	1	--	0.00	0.00	--	--	0.27
4,000 miles	NOX	--	--	--	0.004	0.322	--	--	99.999
150,000 miles	CO	--	1	--	0.01	0.45	--	--	4.9
150,000 miles	HC-NM	--	--	--	0.0006	0.0472	--	--	99.999
150,000 miles	NOX	--	--	--	0.004	0.322	--	--	99.999
150,000 miles	PM	--	--	--	0.000	0.004	--	--	99.999

Cert Region	California + CAA Section 177 states	**Cert/In-Use Code**	Cert
Vehicle Class	LDT2 (LVW 3751-5750, GVW 0-6000)	**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	--	0.01	0.45	--	--	99.9
150,000 miles	NMOG	--	1	--	0.0006	0.0472	--	--	99.999
150,000 miles	NMOG+NOX	--	1	--	0.00	0.00	1	--	99.999
150,000 miles	NOX	--	1	--	0.004	0.322	--	--	99.999

Certification Summary Information Report

Test Group	GGMXT02.8358	Evaporative/Refueling Family	N/A

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		

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	GGMXT02.8358	**Evaporative/Refueling Family**	N/A
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	GGMXT02.8358	**Evaporative/Refueling Family**	N/A

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

COMPLIANCE STATEMENTS

CALIFORNIA HIGH ALTITUDE CO EMISSIONS COMPLIANCE

Vehicles in this test group(s) are expected to comply with the FTP CO standards at high altitude because the fuel injection system meters fuel on air mass flow, compensating for altitude effects.

FEDERAL AND CALIFORNIA EMISSION CONTROL SYSTEM CONTINUITY

Based on engineering evaluations of emission testing between 20°F and 86°F, there is no discontinuity in emission performance of NMOG, CO, NOx or HCHO as measured on the Federal Test Procedure in the temperature range of 20°F to 86°F for vehicles in this test group.

CALIFORNIA VEHICLE EMISSION CONTROL LABEL (TUNE-UP) COMPLIANCE

GM attests that the vehicle emission control label complies with the label durability requirements of the “California Motor Vehicle Emission Control and Smog Index Label Specifications”, Title 13, CCR, Section 1965.

CALIFORNIA WARRANTY COMPLIANCE

GM attests that the vehicles in this test group comply with the California warranty requirements of Title 13, CCR, Sections 2037, 2038 and 2039.

FEDERAL AND CALIFORNIA DIESEL FORMALDEHYDE EMISSIONS COMPLIANCE

Based on an engineering evaluation of formaldehyde emission test data, vehicles in this test group are expected to comply with the formaldehyde emission standards.

FEDERAL HIGH ALTITUDE EMISSIONS COMPLIANCE

Based on an evaluation of high altitude emission test data, vehicles in this test group(s) are expected to comply with the FTP, evaporative and ORVR standards at high altitude.

FEDERAL AND CALIFORNIA ON-BOARD DIAGNOSTIC (OBD) COMPLIANCE

Based on 40 CFR 1806-01(j), all vehicles in this test group meet Federal OBD requirements. Based on Title 13, CCR, Section 1968.2, all vehicles in this test group meet California OBD requirements and, if applicable, Title 13, CCR, Section 1962.1 (c)(2) for 150,000 miles.

FEDERAL AND CALIFORNIA DIESEL-CYCLE ORVR EMISSIONS COMPLIANCE

Due to the low vapor pressure of diesel fuel and the vehicle tank temperatures, hydrocarbon vapor concentrations are low and the vehicle meets the 0.20 grams/gallon refueling emission standard without a control system.

COMPLIANCE STATEMENTS (CONT.)

FEDERAL TIER 2 AND INTERIM NON-TIER 2 LEAK-FREE EXHAUST

This vehicle has been designed with a leak-free exhaust system. A ‘‘leak-free’’ exhaust system is one in which leakage is controlled so that it will not lead to a failure of the certification exhaust emission standards in-use.

FEDERAL NITROUS OXIDE (N_2O) EMISSIONS COMPLIANCE

Based on an evaluation of available information, vehicles in this test group are expected to comply with the N_2O exhaust emission standard.

86.1844(d)(8)-GGMXT02.8358

FLEXIBLE OR ALTERNATE FUELS

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

Engine Code Information

Base Engine Code	1
EC Derivatives	
Test Group	GGMXT02.8358
Durability Group	GGMXDPDNNE84
Engine RPO	LWN
Disp, liters	2.8
Trans RPO	MYB
Trans Type	A6
Product Code	--
Emission RPO	NT7,NUF
Emissions Category	Tier 2,ULEV125
Vehicle Type	TRUCK
Regulatory Agencies	F,C
Sales Area	FA/CA
Design Altitude	Both
A/C Equipped	Yes
Driver Select Device	Tow/haul
Police Only	No
Horsepower @ RPM	181 @ 3400
Torque @ RPM	369 @ 1750
Emission Ctrl Sys	CAC/TC/DFI/OC(2)/DPF/SCRC/EGR/EGRC/NOXS(2)/PMS
TapUp/TapDown	No
Active Fuel Management	No
Description	31XXN Diesel Pickup

Vehicle Parameters - Certificate Coverage

Durability Group GGMXDPDNNE84
TestGroup GGMXT02.8358

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		LWN	2.8	--	--	12M43	COLORADO	A6/1	3.42	6000	255/65R17 ALS GDY	26.6	4754/208	LVW	4750	16.8	33.49	0.4542	0.02794	--	RD	1
1		LWN	2.8	--	--	12M43	COLORADO	A6/1	3.42	6000	265/60R18 AL2 GDY	26.2	4754/208	LVW	4750	17.6	37.78	0.5246	0.02712	--	RD	1
1		LWN	2.8	--	--	12M43	COLORADO	A6/1	3.42	6000	265/65R17 AT GDY	25.9	4754/208	LVW	4750	18.7	47.76	0.4552	0.02785	--	RD	1
1		LWN	2.8	--	--	12M43	COLORADO	A6/1	3.42	6000	265/70R16 ALS GDY	26.0	4754/208	LVW	4750	17.4	37.07	0.4902	0.02754	--	RD	1
1		LWN	2.8	--	--	12M43+NQ	COLORADO	A6/1	3.42	6200	255/65R17 ALS GDY	26.6	4974/213	LVW	5000	17.8	37.74	0.6147	0.02592	&NQ6	4D	1
1		LWN	2.8	--	--	12M43+NQ	COLORADO	A6/1	3.42	6200	265/60R18 AL2 GDY	26.2	4974/213	LVW	5000	18.6	42.22	0.6893	0.02504	&NQ6	4D	1
1		LWN	2.8	--	--	12M43+NQ	COLORADO	A6/1	3.42	6200	265/65R17 AT GDY	25.9	4974/213	LVW	5000	19.7	52.55	0.6153	0.02581	&NQ6	4D	1
1		LWN	2.8	--	--	12M43+NQ	COLORADO	A6/1	3.42	6200	265/70R16 ALS GDY	26.0	4974/213	LVW	5000	18.3	41.29	0.6521	0.02548	&NQ6	4D	1
1		LWN	2.8	--	--	12M53	COLORADO	A6/1	3.42	5900	255/65R17 ALS GDY	26.6	4659/202	LVW	4750	16.9	33.05	0.4531	0.02828	--	RD	1
1		LWN	2.8	--	--	12M53	COLORADO	A6/1	3.42	5900	265/60R18 AL2 GDY	26.2	4659/202	LVW	4750	17.6	37.26	0.5220	0.02748	--	RD	1
1		LWN	2.8	--	--	12M53	COLORADO	A6/1	3.42	5900	265/65R17 AT GDY	25.9	4659/202	LVW	4750	18.7	47.08	0.4542	0.02819	--	RD	1
1		LWN	2.8	--	--	12M53	COLORADO	A6/1	3.42	5900	265/70R16 ALS GDY	26.0	4659/202	LVW	4750	17.4	36.61	0.4885	0.02789	--	RD	1
1		LWN	2.8	--	--	12M53+NQ	COLORADO	A6/1	3.42	6100	255/65R17 ALS GDY	26.6	4891/206	LVW	5000	17.8	37.30	0.6136	0.02620	&NQ6	4D	1
1		LWN	2.8	--	--	12M53+NQ	COLORADO	A6/1	3.42	6100	265/60R18 AL2 GDY	26.2	4891/206	LVW	5000	18.6	41.69	0.6866	0.02535	&NQ6	4D	1
1		LWN	2.8	--	--	12M53+NQ	COLORADO	A6/1	3.42	6100	265/65R17 AT GDY	25.9	4891/206	LVW	5000	19.7	51.87	0.6143	0.02610	&NQ6	4D	1
1		LWN	2.8	--	--	12M53+NQ	COLORADO	A6/1	3.42	6100	265/70R16 ALS GDY	26.0	4891/206	LVW	5000	18.4	40.83	0.6504	0.02578	&NQ6	4D	1
1		LWN	2.8	--	--	12N43	COLORADO	A6/1	3.42	6000	255/65R17 ALS GDY	26.6	4791/209	LVW	4750	16.8	33.49	0.4542	0.02793	--	RD	1
1		LWN	2.8	--	--	12N43	COLORADO	A6/1	3.42	6000	265/60R18 AL2 GDY	26.2	4791/209	LVW	4750	17.6	37.78	0.5246	0.02712	--	RD	1
1		LWN	2.8	--	--	12N43	COLORADO	A6/1	3.42	6000	265/65R17 AT GDY	25.9	4791/209	LVW	4750	18.7	47.76	0.4552	0.02784	--	RD	1
1		LWN	2.8	--	--	12N43+NQ6	COLORADO	A6/1	3.42	6200	255/65R17 ALS GDY	26.6	5011/214	LVW	5000	17.8	37.74	0.6147	0.02592	&NQ6	4D	1
1		LWN	2.8	--	--	12N43+NQ6	COLORADO	A6/1	3.42	6200	265/60R18 AL2 GDY	26.2	5011/214	LVW	5000	18.6	42.22	0.6893	0.02504	&NQ6	4D	1
1		LWN	2.8	--	--	12N43+NQ6	COLORADO	A6/1	3.42	6200	265/65R17 AT GDY	25.9	5011/214	LVW	5000	19.7	52.55	0.6153	0.02581	&NQ6	4D	1
1		LWN	2.8	--	--	12N53	COLORADO	A6/1	3.42	5900	255/65R17 ALS GDY	26.6	4683/190	LVW	4750	16.9	33.05	0.4531	0.02828	--	RD	1
1		LWN	2.8	--	--	12N53	COLORADO	A6/1	3.42	5900	265/60R18 AL2 GDY	26.2	4683/190	LVW	4750	17.6	37.26	0.5220	0.02748	--	RD	1
1		LWN	2.8	--	--	12N53	COLORADO	A6/1	3.42	5900	265/65R17 AT GDY	25.9	4683/190	LVW	4750	18.7	47.08	0.4542	0.02819	--	RD	1
1		LWN	2.8	--	--	12N53+NQ6	COLORADO	A6/1	3.42	6100	255/65R17 ALS GDY	26.6	4903/194	LVW	5000	17.8	37.30	0.6136	0.02620	&NQ6	4D	1
1		LWN	2.8	--	--	12N53+NQ6	COLORADO	A6/1	3.42	6100	265/60R18 AL2 GDY	26.2	4903/194	LVW	5000	18.6	41.69	0.6866	0.02535	&NQ6	4D	1
1		LWN	2.8	--	--	12N53+NQ6	COLORADO	A6/1	3.42	6100	265/65R17 AT GDY	25.9	4903/194	LVW	5000	19.7	51.87	0.6143	0.02610	&NQ6	4D	1
1		LWN	2.8	--	--	12P43	COLORADO	A6/1	3.42	6000	255/65R17 AT GDY	26.4	4802/209	LVW	4750	18.1	41.71	0.5236	0.02720	--	RD	1
1		LWN	2.8	--	--	12P43	COLORADO	A6/1	3.42	6000	265/60R18 AL2 GDY	26.2	4802/209	LVW	4750	17.6	37.78	0.5246	0.02720	--	RD	1
1		LWN	2.8	--	--	12P43	COLORADO	A6/1	3.42	6000	265/65R17 AT GDY	25.9	4802/209	LVW	4750	18.7	47.76	0.4552	0.02792	--	RD	1
1		LWN	2.8	--	--	12P43+NQ6	COLORADO	A6/1	3.42	6200	255/65R17 AT GDY	26.4	5020/213	LVW	5000	19.1	46.23	0.6875	0.02512	&NQ6	4D	1
1		LWN	2.8	--	--	12P43+NQ6	COLORADO	A6/1	3.42	6200	265/60R18 AL2 GDY	26.2	5020/213	LVW	5000	18.6	42.22	0.6893	0.02512	&NQ6	4D	1
1		LWN	2.8	--	--	12P43+NQ6	COLORADO	A6/1	3.42	6200	265/65R17 AT GDY	25.9	5020/213	LVW	5000	19.7	52.55	0.6153	0.02588	&NQ6	4D	1
1		LWN	2.8	--	--	12P53	COLORADO	A6/1	3.42	5900	255/65R17 AT GDY	26.4	4698/192	LVW	4750	18.1	41.14	0.5212	0.02750	--	RD	1
1		LWN	2.8	--	--	12P53	COLORADO	A6/1	3.42	5900	265/60R18 AL2 GDY	26.2	4698/192	LVW	4750	17.6	37.26	0.5220	0.02750	--	RD	1
1		LWN	2.8	--	--	12P53	COLORADO	A6/1	3.42	5900	265/65R17 AT GDY	25.9	4698/192	LVW	4750	18.7	47.08	0.4542	0.02821	--	RD	1
1		LWN	2.8	--	--	12P53+NQ6	COLORADO	A6/1	3.42	6100	255/65R17 AT GDY	26.4	4917/197	LVW	5000	19.1	45.66	0.6851	0.02542	&NQ6	4D	1
1		LWN	2.8	--	--	12P53+NQ6	COLORADO	A6/1	3.42	6100	265/60R18 AL2 GDY	26.2	4917/197	LVW	5000	18.6	41.69	0.6866	0.02542	&NQ6	4D	1
1		LWN	2.8	--	--	12P53+NQ6	COLORADO	A6/1	3.42	6100	265/65R17 AT GDY	25.9	4917/197	LVW	5000	19.7	51.87	0.6143	0.02617	&NQ6	4D	1
1		LWN	2.8	--	--	12T43	COLORADO	A6/1	3.42	6000	255/65R17 ALS GDY	26.6	4819/204	LVW	4750	17.2	33.85	0.4551	0.02895	--	RD	1
1		LWN	2.8	--	--	12T43	COLORADO	A6/1	3.42	6000	265/60R18 AL2 GDY	26.2	4819/204	LVW	4750	18.0	38.19	0.5267	0.02811	--	RD	1
1		LWN	2.8	--	--	12T43	COLORADO	A6/1	3.42	6000	265/65R17 AT GDY	25.9	4819/204	LVW	4750	19.1	48.26	0.4560	0.02885	--	RD	1
1		LWN	2.8	--	--	12T43	COLORADO	A6/1	3.42	6000	265/70R16 ALS GDY	26.0	4819/204	LVW	4750	17.8	37.41	0.4915	0.02854	--	RD	1
1		LWN	2.8	--	--	12T43+NQ6	COLORADO	A6/1	3.42	6200	255/65R17 ALS GDY	26.6	5036/208	LVW	5000	18.2	38.10	0.6156	0.02692	&NQ6	4D	1
1		LWN	2.8	--	--	12T43+NQ6	COLORADO	A6/1	3.42	6200	265/60R18 AL2 GDY	26.2	5036/208	LVW	5000	19.0	42.62	0.6913	0.02603	&NQ6	4D	1
1		LWN	2.8	--	--	12T43+NQ6	COLORADO	A6/1	3.42	6200	265/65R17 AT GDY	25.9	5036/208	LVW	5000	20.1	53.03	0.6160	0.02681	&NQ6	4D	1
1		LWN	2.8	--	--	12T43+NQ6	COLORADO	A6/1	3.42	6200	265/70R16 ALS GDY	26.0	5036/208	LVW	5000	18.7	41.62	0.6533	0.02648	&NQ6	4D	1
1		LWN	2.8	--	--	12U43	COLORADO	A6/1	3.42	6000	255/65R17 ALS GDY	26.6	4857/204	LVW	4750	17.2	33.85	0.4551	0.02895	--	RD	1
1		LWN	2.8	--	--	12U43	COLORADO	A6/1	3.42	6000	265/60R18 AL2 GDY	26.2	4857/204	LVW	4750	18.0	38.19	0.5267	0.02811	--	RD	1
1		LWN	2.8	--	--	12U43	COLORADO	A6/1	3.42	6000	265/65R17 AT GDY	25.9	4857/204	LVW	4750	19.1	48.26	0.4560	0.02885	--	RD	1
1		LWN	2.8	--	--	12U43+NQ6	COLORADO	A6/1	3.42	6200	255/65R17 ALS GDY	26.6	5074/208	LVW	5000	18.2	38.10	0.6156	0.02692	&NQ6	4D	1
1		LWN	2.8	--	--	12U43+NQ6	COLORADO	A6/1	3.42	6200	265/60R18 AL2 GDY	26.2	5074/208	LVW	5000	19.0	42.62	0.6913	0.02603	&NQ6	4D	1
1		LWN	2.8	--	--	12U43+NQ6	COLORADO	A6/1	3.42	6200	265/65R17 AT GDY	25.9	5074/208	LVW	5000	20.1	53.03	0.6160	0.02681	&NQ6	4D	1
1		LWN	2.8	--	--	12V43	COLORADO	A6/1	3.42	6000	255/65R17 AT GDY	26.4	4853/203	LVW	4750	18.5	42.14	0.5254	0.02819	--	RD	1
1		LWN	2.8	--	--	12V43	COLORADO	A6/1	3.42	6000	265/60R18 AL2 GDY	26.2	4853/203	LVW	4750	18.0	38.19	0.5267	0.02819	--	RD	1
1		LWN	2.8	--	--	12V43	COLORADO	A6/1	3.42	6000	265/65R17 AT GDY	25.9	4853/203	LVW	4750	19.1	48.26	0.4560	0.02893	--	RD	1
1		LWN	2.8	--	--	12V43+NQ6	COLORADO	A6/1	3.42	6200	255/65R17 AT GDY	26.4	5069/208	LVW	5000	19.5	46.64	0.6893	0.02611	&NQ6	4D	1
1		LWN	2.8	--	--	12V43+NQ6	COLORADO	A6/1	3.42	6200	265/60R18 AL2 GDY	26.2	5069/208	LVW	5000	19.0	42.62	0.6913	0.02611	&NQ6	4D	1
1		LWN	2.8	--	--	12V43+NQ6	COLORADO	A6/1	3.42	6200	265/65R17 AT GDY	25.9	5069/208	LVW	5000	20.1	53.03	0.6160	0.02688	&NQ6	4D	1
1		LWN	2.8	--	--	T2M43	CANYON 2WD	A6/1	3.42	6000	255/65R17 ALS GDY	26.6	4739/199	LVW	4750	17.0	33.46	0.4541	0.02847	--	RD	1
1		LWN	2.8	--	--	T2M43	CANYON 2WD	A6/1	3.42	6000	265/60R18 AL2 GDY	26.2	4739/199	LVW	4750	17.7	37.74	0.5245	0.02765	--	RD	1
1		LWN	2.8	--	--	T2M43	CANYON 2WD	A6/1	3.42	6000	265/65R17 AT GDY	25.9	4739/199	LVW	4750	18.9	47.71	0.4552	0.02838	--	RD	1
1		LWN	2.8	--	--	T2M43	CANYON 2WD	A6/1	3.42	6000	265/70R16 ALS GDY	26.0	4739/199	LVW	4750	17.6	37.04	0.4901	0.02807	--	RD	1
1		LWN	2.8	--	--	T2M53	CANYON 2WD	A6/1	3.42	5900	255/65R17 ALS GDY	26.6	4644/194	LVW	4750	16.8	33.02	0.4530	0.02822	--	RD	1
1		LWN	2.8	--	--	T2M53	CANYON 2WD	A6/1	3.42	5900	265/60R18 AL2 GDY	26.2	4644/194	LVW	4750	17.6	37.22	0.5218	0.02742	--	RD	1
1		LWN	2.8	--	--	T2M53	CANYON 2WD	A6/1	3.42	5900	265/65R17 AT GDY	25.9	4644/194	LVW	4750	18.7	47.03	0.4542	0.02813	--	RD	1
1		LWN	2.8	--	--	T2M53	CANYON 2WD	A6/1	3.42	5900	265/70R16 ALS GDY	26.0	4644/194	LVW	4750	17.4	36.58	0.4884	0.02783	--	RD	1
1		LWN	2.8	--	--	T2M53+NQ	CANYON 4WD	A6/1	3.42	6100	255/65R17 ALS GDY	26.6	4887/199	LVW	5000	17.8	37.36	0.6138	0.02620	&NQ6	4D	1

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

Vehicle Parameters - Certificate Coverage

Durability Group GGMXDPDNNE84
TestGroup GGMXT02.8358

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		LWN	2.8	--	--	T2M53+NQ	CANYON 4WD	A6/1	3.42	6100	265/60R18 AL2 GDY	26.2	4887/199	LVW	5000	18.6	41.76	0.6870	0.02535	&NQ6	4D	1
1		LWN	2.8	--	--	T2M53+NQ	CANYON 4WD	A6/1	3.42	6100	265/65R17 AT GDY	25.9	4887/199	LVW	5000	19.7	51.95	0.6144	0.02610	&NQ6	4D	1
1		LWN	2.8	--	--	T2M53+NQ	CANYON 4WD	A6/1	3.42	6100	265/70R16 ALS GDY	26.0	4887/199	LVW	5000	18.4	40.88	0.6506	0.02578	&NQ6	4D	1
1		LWN	2.8	--	--	T2N43	CANYON 2WD	A6/1	3.42	6000	255/65R17 ALS GDY	26.6	4776/200	LVW	4750	17.0	33.46	0.4541	0.02847	--	RD	1
1		LWN	2.8	--	--	T2N43	CANYON 2WD	A6/1	3.42	6000	255/65R17 AT GDY	26.4	4776/200	LVW	4750	18.3	41.67	0.5234	0.02765	--	RD	1
1		LWN	2.8	--	--	T2N43	CANYON 2WD	A6/1	3.42	6000	265/60R18 AL2 GDY	26.2	4776/200	LVW	4750	17.7	37.74	0.5245	0.02765	--	RD	1
1		LWN	2.8	--	--	T2N43	CANYON 2WD	A6/1	3.42	6000	265/65R17 AT GDY	25.9	4776/200	LVW	4750	18.9	47.71	0.4552	0.02838	--	RD	1
1		LWN	2.8	--	--	T2N43+NQ6	CANYON 4WD	A6/1	3.42	6200	255/65R17 ALS GDY	26.6	5012/205	LVW	5000	18.0	37.81	0.6149	0.02645	&NQ6	4D	1
1		LWN	2.8	--	--	T2N43+NQ6	CANYON 4WD	A6/1	3.42	6200	255/65R17 AT GDY	26.4	5012/205	LVW	5000	19.3	46.30	0.6878	0.02558	&NQ6	4D	1
1		LWN	2.8	--	--	T2N43+NQ6	CANYON 4WD	A6/1	3.42	6200	265/60R18 AL2 GDY	26.2	5012/205	LVW	5000	18.8	42.29	0.6896	0.02558	&NQ6	4D	1
1		LWN	2.8	--	--	T2N43+NQ6	CANYON 4WD	A6/1	3.42	6200	265/65R17 AT GDY	25.9	5012/205	LVW	5000	19.9	52.63	0.6154	0.02634	&NQ6	4D	1
1		LWN	2.8	--	--	T2N53	CANYON 2WD	A6/1	3.42	5900	255/65R17 ALS GDY	26.6	4692/205	LVW	4750	16.8	33.02	0.4530	0.02822	--	RD	1
1		LWN	2.8	--	--	T2N53	CANYON 2WD	A6/1	3.42	5900	255/65R17 AT GDY	26.4	4692/205	LVW	4750	18.1	41.10	0.5210	0.02742	--	RD	1
1		LWN	2.8	--	--	T2N53	CANYON 2WD	A6/1	3.42	5900	265/60R18 AL2 GDY	26.2	4692/205	LVW	4750	17.6	37.22	0.5218	0.02742	--	RD	1
1		LWN	2.8	--	--	T2N53	CANYON 2WD	A6/1	3.42	5900	265/65R17 AT GDY	25.9	4692/205	LVW	4750	18.7	47.03	0.4542	0.02813	--	RD	1
1		LWN	2.8	--	--	T2N53+NQ6	CANYON 4WD	A6/1	3.42	6100	255/65R17 ALS GDY	26.6	4928/210	LVW	5000	17.8	37.36	0.6138	0.02620	&NQ6	4D	1
1		LWN	2.8	--	--	T2N53+NQ6	CANYON 4WD	A6/1	3.42	6100	255/65R17 AT GDY	26.4	4928/210	LVW	5000	19.1	45.73	0.6854	0.02535	&NQ6	4D	1
1		LWN	2.8	--	--	T2N53+NQ6	CANYON 4WD	A6/1	3.42	6100	265/60R18 AL2 GDY	26.2	4928/210	LVW	5000	18.6	41.76	0.6870	0.02535	&NQ6	4D	1
1		LWN	2.8	--	--	T2N53+NQ6	CANYON 4WD	A6/1	3.42	6100	265/65R17 AT GDY	25.9	4928/210	LVW	5000	19.7	51.95	0.6144	0.02610	&NQ6	4D	1
1		LWN	2.8	--	--	T2P43	CANYON 2WD	A6/1	3.42	6000	265/60R18 AL2 GDY	26.2	4808/211	LVW	4750	17.8	37.74	0.5245	0.02780	--	RD	1
1		LWN	2.8	--	--	T2P43	CANYON 2WD	A6/1	3.42	6000	265/65R17 AT GDY	25.9	4808/211	LVW	4750	18.9	47.71	0.4552	0.02853	--	RD	1
1		LWN	2.8	--	--	T2P43+NQ6	CANYON 4WD	A6/1	3.42	6200	265/60R18 AL2 GDY	26.2	5046/215	LVW	5000	18.8	42.29	0.6896	0.02573	&NQ6	4D	1
1		LWN	2.8	--	--	T2P43+NQ6	CANYON 4WD	A6/1	3.42	6200	265/65R17 AT GDY	25.9	5046/215	LVW	5000	20.0	52.63	0.6154	0.02649	&NQ6	4D	1
1		LWN	2.8	--	--	T2P53	CANYON 2WD	A6/1	3.42	5900	265/60R18 AL2 GDY	26.2	4731/203	LVW	4750	17.6	37.22	0.5218	0.02758	--	RD	1
1		LWN	2.8	--	--	T2P53	CANYON 2WD	A6/1	3.42	5900	265/65R17 AT GDY	25.9	4731/203	LVW	4750	18.7	47.03	0.4542	0.02828	--	RD	1
1		LWN	2.8	--	--	T2P53+NQ6	CANYON 4WD	A6/1	3.42	6100	265/60R18 AL2 GDY	26.2	4969/208	LVW	5000	18.6	41.76	0.6870	0.02550	&NQ6	4D	1
1		LWN	2.8	--	--	T2P53+NQ6	CANYON 4WD	A6/1	3.42	6100	265/65R17 AT GDY	25.9	4969/208	LVW	5000	19.8	51.95	0.6144	0.02625	&NQ6	4D	1
1		LWN	2.8	--	--	T2T43	CANYON 2WD	A6/1	3.42	6000	255/65R17 ALS GDY	26.6	4809/204	LVW	4750	16.9	33.85	0.4550	0.02818	--	RD	1
1		LWN	2.8	--	--	T2T43	CANYON 2WD	A6/1	3.42	6000	265/60R18 AL2 GDY	26.2	4809/204	LVW	4750	17.7	38.18	0.5266	0.02735	--	RD	1
1		LWN	2.8	--	--	T2T43	CANYON 2WD	A6/1	3.42	6000	265/65R17 AT GDY	25.9	4809/204	LVW	4750	18.8	48.24	0.4560	0.02809	--	RD	1
1		LWN	2.8	--	--	T2T43	CANYON 2WD	A6/1	3.42	6000	265/70R16 ALS GDY	26.0	4809/204	LVW	4750	17.5	37.40	0.4914	0.02777	--	RD	1
1		LWN	2.8	--	--	T2U43	CANYON 2WD	A6/1	3.42	6000	255/65R17 ALS GDY	26.6	4846/203	LVW	4750	16.9	33.85	0.4550	0.02818	--	RD	1
1		LWN	2.8	--	--	T2U43	CANYON 2WD	A6/1	3.42	6000	255/65R17 AT GDY	26.4	4846/203	LVW	4750	18.2	42.13	0.5254	0.02735	--	RD	1
1		LWN	2.8	--	--	T2U43	CANYON 2WD	A6/1	3.42	6000	265/60R18 AL2 GDY	26.2	4846/203	LVW	4750	17.7	38.18	0.5266	0.02735	--	RD	1
1		LWN	2.8	--	--	T2U43	CANYON 2WD	A6/1	3.42	6000	265/65R17 AT GDY	25.9	4846/203	LVW	4750	18.8	48.24	0.4560	0.02809	--	RD	1
1		LWN	2.8	--	--	T2U43+NQ6	CANYON 4WD	A6/1	3.42	6200	255/65R17 ALS GDY	26.6	5069/208	LVW	5000	17.9	38.12	0.6157	0.02616	&NQ6	4D	1
1		LWN	2.8	--	--	T2U43+NQ6	CANYON 4WD	A6/1	3.42	6200	255/65R17 AT GDY	26.4	5069/208	LVW	5000	19.2	46.67	0.6894	0.02527	&NQ6	4D	1
1		LWN	2.8	--	--	T2U43+NQ6	CANYON 4WD	A6/1	3.42	6200	265/60R18 AL2 GDY	26.2	5069/208	LVW	5000	18.7	42.65	0.6914	0.02527	&NQ6	4D	1
1		LWN	2.8	--	--	T2U43+NQ6	CANYON 4WD	A6/1	3.42	6200	265/65R17 AT GDY	25.9	5069/208	LVW	5000	19.9	53.07	0.6161	0.02605	&NQ6	4D	1
1		LWN	2.8	--	--	T2V43+NQ6	CANYON 4WD	A6/1	3.42	6000	265/60R18 AL2 GDY	26.2	4879/206	LVW	5000	18.8	42.65	0.6914	0.02543	&NQ6	4D	1
1		LWN	2.8	--	--	T2V43+NQ6	CANYON 4WD	A6/1	3.42	6000	265/65R17 AT GDY	25.9	4879/206	LVW	5000	19.9	53.07	0.6161	0.02620	&NQ6	4D	1
1		LWN	2.8	--	--	T2V43+NQ6	CANYON 4WD	A6/1	3.42	6200	265/60R18 AL2 GDY	26.2	5104/210	LVW	5000	18.8	42.65	0.6914	0.02543	&NQ6	4D	1
1		LWN	2.8	--	--	T2V43+NQ6	CANYON 4WD	A6/1	3.42	6200	265/65R17 AT GDY	25.9	5104/210	LVW	5000	19.9	53.07	0.6161	0.02620	&NQ6	4D	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	GGMXT02.8358
Transmission Code	1
Transmission RPO	MYB
Transmission Type	A6
Drive Gear Ratios	4.065,2.371,1.551,1.157,0.853,0.674
Chain Drive Ratio	NA
Shift Calibrations	PCM Controlled
Torque Converter Diameter	258 mm
Torque Converter Stall Torque Ratio	1.89
Torque Converter Lockup RPM'S	Computer Controlled
Torque Converter Stall Torque Speed	2470 @ 254
Multimode Feature - # of Modes	2
Shift Indicator Light	NO
Description	MYB
TapUp/TapDown	NO

SPECIAL TEST INSTRUCTIONS

DRIVER SELECTABLE MODES

Tow/Haul Mode:

Some vehicles are equipped with a trailer tow switch. To select the trailer tow mode, depress the trailer tow switch. The trailer tow light on the instrument panel cluster will illuminate. To go back to the normal operation, press the switch again. The indicator light on the instrument cluster will go out. Upon an engine restart, the trailer tow switch must be reactivated to enter the trailer tow mode.

Other Modes:

Some vehicles are equipped with additional driver selectable modes. These vehicles are equipped with either additional gear shifter positions or a mode selection switch to engage each mode. Please refer to the Owner's Manual for specific instructions on how to engage each mode.

OTHER

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.

Four-Wheel and All-Wheel Drive Vehicles:

Please contact General Motors Compliance and Certification organization for instructions on how to disable the four-wheel and all-wheel drive systems.

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.

Daytime Running Lights (DRL):

Daytime running lights must be disabled prior to fuel economy testing. Please contact General Motors Compliance and Certification organization for instructions on how to disable the daytime running lights.

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ENGINE STARTING INSTRUCTIONS

ENGINE STARTING INSTRUCTIONS

Warm or Cold Engine

Before starting the vehicle, the following conditions should exist:

- Gear selector in "Park" - automatic transmissions.
- Foot off accelerator.

1) Turn the ignition key to Position II, checking that the instrument panel tell-tales illuminate.

2) Turn the ignition key to Position III to operate the starter motor.

3) When the engine fires, release the ignition key and allow it to return to Position II.

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	6-7	7-8	8-9	9-10

*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

September 18, 2015 GP103

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

Dear Mr. Wright:

Subject: Request for Certificate of Conformity - 2016 General Motors Test Group GGMXT02.8358

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. Attached to this request is the Part 1 Application and a copy of the EPA Certification Fee Filing form.

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

September 18, 2015 GP104

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 - 2016 General Motors Test Group GGMXT02.8358

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.

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 (DIESEL)

	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).

U.S. Environmental Protection Agency
Motor Vehicle and Engine Compliance Program
On-Highway Fee Filing Form
For Certification Applications Received In Calendar Year 2015

Manufacturer Name General Motors LLC

Address 3300 General Motors Rd.

City/State/Zip Code/Country Milford, MI 48380-3726 U.S.A.

On-Highway Certification Request Type (check one)

_X_ **LDV/LDT/MDPV/HDV (Chassis cert) FEDERAL ($26,741)**

___ **LDV/LDT/MDPV/HDV (Chassis cert) CAL-ONLY ($14,193)**

___ **HDE (Engine Dyno cert) FEDERAL ($47,664)**

___ **HDV EVAP-ONLY ($563)**

___ **HDE CALIF-ONLY ($563)**

___ **MOTORCYCLE ($1,852)**

___ **LD/MDPV/HDV ICI ($76,339)**

EPA standard family or test group: G G M X T 0 2 . 8 3 5 8

Amount paid (U.S. Funds Only): $ 26,741

Enter the check number, or the statement "WIRE" or "ACH": 005160830

Reduced Fee Section (40 CFR §1027.120)
Reduced fee calculation (minimum initial payment $750): Total number of vehicles/units covered:___
Aggregate retail sales price of the vehicles/units: $ x 1% = $
Check box if an Independent Commercial Importer: ☐ List the VIN of imported vehicles/engines below:

Company Representative: Kim Sinacola Signature: K. L. Sinacola

Title: Staff Assistant Phone/Fax: 248/296-6200 / 248/685-5604 Date: 03-16-15

E-mail Address: kimber.l.sinacola@gm.com
Submission of payments and forms:
(1) Online: **Forms** may be found and submitted with or without **payments** online at www.Pay.gov.
(2) By mail: For check payments only, send **checks** and this **form** to:

Environmental Protection Agency
Motor Vehicle and Engine Compliance Program
P.O. Box 979032
St. Louis, MO 63197-9000

(3) Transmit offline Wire **payments** to the New York Federal Reserve Bank.(See Instructions, p.2)
(4) Transmit offline ACH **payments** to the Federal Reserve Bank of Cleveland. (Instructions, p.2)
(5) **Forms** not submitted under (1) and (2) above can be sent as email attachments to Fees@epa.gov.
Forms and payments sent in ways other than the above may be delayed or ineffective. See the Instructions for sending checks and forms by private mail service (e.g., Federal Express).

The public reporting and recordkeeping burden for this collection of information is estimated to average 18 minutes per response. Send comments on EPA's need for this information, the accuracy of the provided burden estimate, 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., N.W., Washington, D.C. 20460. Include the OMB control number in any correspondence. Do not send the completed Form 3520-29 to this address.

This form expires: 10/31/2016

*** VEHICLE INFORMATION ***

Model Year	2016	**Certifying Agent**	GM
Test Vehicle	28SPGV1249	**GM Config**	002
		Run Date	09/21/2015 10:27:00

VEHICLE NO:	28SPGV1249	**CONFIGURATION NO:**	002	**EPA VERSION NO:**	00		
				ORIGINAL CERT YEAR:	2016		
ENG FAM/TEST GRP:	GGMXT02.8358	**ENGINE CODE:**	1				
EVAP FAMILY:	NA	**EVAP CODE:**	NA				
TEST PURPOSE:	DATA	**DISPL:**	2.8	**SALES LOC:**	BOTH		
VEH TYPE: FED=	LDT2	**CAL=**	L2L2	**EMIS CATEGORY: FED=**	BIN5	**CAL=**	ULEV125
DURA GRP:	GGMXDPDNNE84	**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=		**AUX=**				**PRIMARY FUEL:**	DIES
PREMIUM FUEL RECOM'D:	N	**USAGE: F=**	FA	**C=**	CA		
DYNAMOMETER DRIVE AXLE:	R						
TIRE PRESS(PSI): FRT=	35	**REAR=**	35	**A/C EQ:**	Y		
68d ROADLOAD: F0=	54.43	**F1=** 0.6312		**F2=** 0.0266		**TRLHP 68d:**	20.3
20d ROADLOAD: F0=	59.87	**F1=** 0.6943		**F2=** 0.02926		**TRLHP 20d:**	22.4

WEIGHTS (LBS):				**TIRES:**			
ETW: 5250	**EPA CURB:** 4804	**GVWR:**	6200	**VENDOR:**	GDY	**SIZE:**	265/65R17
				TREAD TYPE:	AT		
	CURB WEIGHT/TEST WT CLASS TYPE	**DRIVE AXLE**					
DESIGN:	4804/LVW	2107					

REP VEH MODEL:	T2V43+NQ6	**FIN DR RATIO:**	3.42	**N/V:**	25.9	**ENG RPO:**	LWN
ACTUAL MODEL NO:	12N43						
RATED HP:	181	**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 150K TEST POINT

86.1844(b)

LWN

52 LWN&NT7 12T53X
201506042341
PRINTED IN USA

1Z1 TEST LABEL

20955245

7 12T53X

VEHICLE EMISSION CONTROL INFORMATION

GM GENERAL MOTORS LLC

Conforms to Regulations: 2016 Fuel: Diesel
U.S. EPA class / stds: LDT / TIER2
California class / stds: LDT / ULEV125
Group: GGMXT02.8358 2.8L
Evap: N/A
CAC/TC/DFI/OC/DPF/SCRC/EGR/EGRC/NOXS/PMS, CA OBD II