Mercedes-Benz

Application for Certification – Part 1
2014 Model Year

Specific Sections

Test Group
EMBXJ02.2U2A

Durability Group: EMBXDPDNNPP4

Evaporative Family: n/a

EPA Summary Sheet No.: CSI-EMBXJ02.2U2A

Durability Group Description: Diesel Cycle - Four Stroke - water cooled –
Piston-diesel – direct injection
Pt Oxidation Catalyst (OC)
Diesel Particulate Filter (DPF)
Selective Catalytic Reduction (SCR) Catalyst

Test Group Description(s): 2.2 L I4

Applicable Standards: Federal State: T2 BIN 5 LDV
California: ULEV II PC

Vehicle(s) Covered: GLK 250 BLUETEC 4MATIC, E 250 BLUETEC 4MATIC
E 250 BLUETEC

Vehicles Tested: Exhaust: X204DE2TC 4x4 – Z3016
Evap: N/A

EPA Response Requested By:

Brian FitzGerald, Phone: (734) 997-2002

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Revisions:

Issue Date / Revision Date	Affected Pages	Description of Changes
Jun-20-13	all	Initial Version
Jul-15-13	p.1 & p7-p22	Update models covered & CSI

S-01: Correspondence

(refer to S-01 in common section for a complete list of contacts)

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S-02: Durability Group Description

Please refer to the common application for certification.

S-03: Evaporative/Refueling Family Description

ORVR Testing Waiver per CFR § 86.1810-01 (k) + (m)
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.

S-04: Durability Procedure Description

Please refer to the common application for certification.

S-05: Test Group Description

The summary sheet numbers are provided on the cover page of this application. The Test Group Description is provided in section 2 of the common application as part of the durability group description.

S-06: Test Vehicle Description

vehicle use	car number	vehicle type	engine displ. [cm^3]	engine code	transm.	ETW [lbs]	exhaust emission control system
EDV-Ex	X204-Z3016	X204DE22TC 4X4	2143	OM651-22	L-7	4750	DFI/TC/CAC/EGR/EGRC/OC/PTOX/SCR-U/NOXS(2)/AFS
DDV-Ex	L906-1056	L906DE30TC (4,53to)	2987	OM642-30C	L-5	8500	DFI/TC/CAC/EGR/EGRC/OC/PTOX/2SCR-U/NOXS(2)/AFS

Test parameters can be taken from the Verify Summary sheets in section S-07.

Certified Models

Test Group	Model Name	Veh. Code	Curb Weight [lbs]	GVW [lbs]	EPA/ CARB Car Class
EMBXJ02.2U2A	GLK 250 BLUETEC 4MATIC	X204DE22TC 4X4	4495	5512	T2 BIN 5 LDV/ ULEV II PC

VI sheet Exhaust EDV

Verify Processing Report

Verify Processing Report

Total Datasets Submitted: 1
Accepted Datasets: 1
Rejected Datasets: 0

The original datasets are listed below. In addition, any information generated by the Verify system is also included. For any rejected datasets, the reason(s) the dataset was rejected is provided below in the Transaction Report for that particular dataset.

Test Vehicle Information Submission

Test Vehicle Information Details

Information Process Code : N
EPA Manufacturer Code : MBX
Vehicle Identification Text : X204DE22TC-Z3016
Vehicle Configuration Number : 2

Vehicle Configuration Details

Vehicle Description Details

Manufacturer Vehicle Configuration Number : 2
Test Group Name : DMBXT02.2U2A
Model Year : 2013
Actual Test Vehicle Make Text : Mercedes-Benz
Actual Test Vehicle Model Text : GLK 250 BLUETEC 4MATIC

Drive Source Details

Drive Source Identifier : C
Fuel Identifier : D

Test Drive Code : R
Shift Indicator Light Usage Identifier : 1
Aged Component Usage Identifier : 4

Odometer Correction Details

Correction Initial Value : 147
Correction Factor Value : 0.9987
Correction Sign Identifier : -
Correction Units Code : M

Engine Code Text : OM651-22
Engine Rated Horsepower Value : 200
Engine Displacement Value : 2.143

Air Aspiration Details

Air Aspiration Method Identifier : TC
Air Aspiration Device Count : 1
Air Aspiration Configuration Identifier : N

Charge Air Cooler Identifier : A

Vehicle Specifications Details

Curb Weight Value : 4495

Verify Processing Report

Equivalent Test Weight Value : 4750
Gross Vehicle Weight Rating Value : 5512
NV Ratio Value : 27.7
Axle Ratio Value : 3.07

Transmission Specifications Details

Light Duty Transmission Type Identifier : A
Transmission Lockup Indicator : Y
Transmission Creeper Gear Indicator : N
Transmission Gear Count : 7

Target Set Coefficient Details

Test Procedure Dynamometer Coefficients Category : C-H-E
Target CoefficientA Value : 62.906
Target CoefficientB Value : 0.30243
Target CoefficientC Value : 0.02381
Set CoefficientA Value : 44.377
Set CoefficientB Value : -0.5745
Set CoefficientC Value : 0.032268

Target Set Coefficient Details

Test Procedure Dynamometer Coefficients Category : Cold-CO
Target CoefficientA Value : 69.921
Target CoefficientB Value : 0.33621
Target CoefficientC Value : 0.026473
Set CoefficientA Value : 34.958
Set CoefficientB Value : 0.0672
Set CoefficientC Value : 0.026475

Target Set Coefficient Details

Test Procedure Dynamometer Coefficients Category : US06
Target CoefficientA Value : 62.906
Target CoefficientB Value : 0.30243
Target CoefficientC Value : 0.02381
Set CoefficientA Value : 44.377
Set CoefficientB Value : -0.5745
Set CoefficientC Value : 0.032268

Manufacturer Comment Text : PIR 255/45R19

EPA Generated Test Vehicle Details

Original Receipt Date : 20130607
Hybrid Vehicle Indicator : N
Adjusted Loaded Vehicle Weight Value : 5003
Loaded Vehicle Weight Value : 4795
Total Road Load Horsepower Value : 18.3

Verify Processing Report

Transaction Status Details

Transaction Status Identifier : ACCEPTED

S-07: Test Results

Date: 07/19/2013 03:45:32 AM

Certification Summary Information Report

Manufacturer	Mercedes Benz	**Manufacturer Code**	MBX
Test Group	EMBXJ02.2U2A	**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**	07/19/2013
Model Year	2014		

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	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	EMBXDPDNNPP4	**Durability Group Equivalency Factor**	1.0
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 Compliance Indicator	Yes	**SFTP Composite CO Option**	No
OBD Compliance Type	CARB	**OBD Demonstration Vehicle Test Group**	DMBXT02.2U2A
Mfr Test Group Comments	--		
Mfr Exhaust / Evap Standards Comments	--		

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Certification Summary Information Report

Test Group	EMBXJ02.2U2A	**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
Mercedes Benz	1 - Mercedes-Benz	803 - GLK 250 BLUETEC 4MATIC	California + CAA Section 177 states	4-Wheel Drive	Automatic	7	Yes
Mercedes Benz	1 - Mercedes-Benz	304 - E 250 BLUETEC	Federal	4-Wheel Drive	Automatic	7	Yes
Mercedes Benz	1 - Mercedes-Benz	305 - E 250 BLUETEC 4MATIC	California + CAA Section 177 states	2-Wheel Drive, Rear	Automatic	7	Yes
Mercedes Benz	1 - Mercedes-Benz	305 - E 250 BLUETEC 4MATIC	Federal	2-Wheel Drive, Rear	Automatic	7	Yes
Mercedes Benz	1 - Mercedes-Benz	304 - E 250 BLUETEC	California + CAA Section 177 states	4-Wheel Drive	Automatic	7	Yes
Mercedes Benz	1 - Mercedes-Benz	803 - GLK 250 BLUETEC 4MATIC	Federal	4-Wheel Drive	Automatic	7	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**	0W-30
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	Diesel Particulate Filter	Platinum + Paladium	Ceramic	Monolith
3	Selective Catalytic Reduction	no precious metal / ferric oxide	Ceramic	Monolith

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

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Certification Summary Information Report

Test Group	EMBXJ02.2U2A	**Evaporative/Refueling Family**	N/A

Engine Configuration Number 1

Engine Displacement (liters)	2.1	**Engine Rated Horsepower**	200
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	Heated air fuel	**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	No	**Air Injection Type**	--
Mfr Engine Configuration Comments	Twin charger (2 stages turbocharger)		

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	DMBX10026569	DMBX10026571	DMBX10026572	DMBX10026573	DMBX10026570	22.3	21.4	29.5	28.5	N/A

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Certification Summary Information Report

Test Group	EMBXJ02.2U2A	**Evaporative/Refueling Family**	N/A

Emission Data Vehicle Information

Vehicle ID / Configuration X204DE22TC-Z3016 / 2

Vehicle Model

Represented Test Vehicle Make	Mercedes-Benz	**Represented Test Vehicle Model**	GLK 250 BLUETEC 4MATIC

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**	7
Engine Code	OM651-22	**Axle Ratio**	3.07
Displacement (liters)	2.143	**Rated Horsepower**	200
Equivalent Test Weight (pounds)	4750	**Air Aspiration Method**	Turbocharged
Drive Mode While Testing	2-Wheel Drive, Rear	**SIL Usage**	Not eqipped
Aged Emission Components	4,000 (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	62.906	0.30243	0.02381	44.377	-0.5745	0.032268	18.3
Cold CO	69.921	0.33621	0.026473	34.958	0.0672	0.026475	N/A
US06	62.906	0.30243	0.02381	44.377	-0.5745	0.032268	N/A

Manufacturer Test Vehicle Comments PIR 255/45R19

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Certification Summary Information Report

Test Group	EMBXJ02.2U2A	**Evaporative/Refueling Family**	N/A
Test #	**DMBX10026569**	**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	05/03/2013	**Fuel**	Diesel
Vehicle Class	LDV/Passenger Car	**DF Type**	Mfr. Determined
Verify Test Lab ID	Ann Arbor Technology Center		

Test Results

Test Result Name	Unrounded Test Result	Verify Calculated FE MPG Equivalent Value
Bag 1 Carbon Dioxide	398.1	--
Bag 1 Fuel Economy	25.5	25.5
Bag 2 Carbon Dioxide	363.5	--
Bag 2 Fuel Economy	28	28
Bag 3 Carbon Dioxide	317.5	--
Bag 3 Fuel Economy	32	32
CH4 - Methane	0.01822	--
Carbon Monoxide	0.0942	--
Formaldehyde	0.0002293	--
Manufacturer Fuel Economy	28.4	28.4
Nitrogen Oxide	0.0451	--
Nitrous Oxide	0.01	--
Non-methane Hydrocarbon	0.01274	--
Non-methane organic gas (California)	0.0132496	--
Particulate Matter	0.0023	--
Total Hydrocarbon	0.03	--

Test Result Name	Unrounded Test Result	Verify Calculated CREE/OPT-CREE
Optional Carbon-Related Exhaust Emissions	361.6	362

Test Result Name	Unrounded Test Result	Verify Calculated CO2
Carbon dioxide	358	358

Manufacturer Test Comments PIR 255/45R19 (Canada Only) N20 & OCREE

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Certification Summary Information Report

Test Group EMBXJ02.2U2A **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	50,000 miles	Federal Tier 2 Bin 5	CO	0.09	--	--	0.0036 UP	0.02	--	0.1	3.4	Pass
Fed	50,000 miles	Federal Tier 2 Bin 5	HCHO	0.0002	--	--	0.0000 UP	0.0	--	0.000	0.015	Pass
Fed	50,000 miles	Federal Tier 2 Bin 5	NMOG	0.0132	--	1.00	0.0006 UP	0.00095	--	0.015	0.075	Pass
Fed	50,000 miles	Federal Tier 2 Bin 5	NOX	0.045	--	--	0.0024 UP	0.0	--	0.05	0.05	Pass
Fed	120,000 miles	Federal Tier 2 Bin 5	CO	0.09	--	--	0.0036 UP	0.04	--	0.1	4.2	Pass
Fed	120,000 miles	Federal Tier 2 Bin 5	HC-NM+NOX-COMP	0.077	--	--	0.0031 UP	0.00303	--	0.08	0.95	Pass
Fed	120,000 miles	Federal Tier 2 Bin 5	HCHO	0.0002	--	--	0.0000 UP	0.0	--	0.000	0.018	Pass
Fed	120,000 miles	Federal Tier 2 Bin 5	N2O	0.0100	--	--	0.0000 UP	0.0	--	0.010	0.070	Pass
Fed	120,000 miles	Federal Tier 2 Bin 5	NMOG	0.0132	--	1.00	0.0006 UP	0.00241	--	0.016	0.090	Pass
Fed	120,000 miles	Federal Tier 2 Bin 5	NOX	0.045	--	--	0.0024 UP	0.0	--	0.05	0.07	Pass
Fed	120,000 miles	Federal Tier 2 Bin 5	OPT-CREE	362	--	--	0 UP	0	--	362	--	--
Fed	120,000 miles	Federal Tier 2 Bin 5	PM	0.002	--	--	0.0002 UP	0.0	--	0.00	0.01	Pass
CA	50,000 miles	California LEV-II ULEV	CO	0.09	--	--	0.0036 UP	0.02	--	0.1	1.7	Pass
CA	50,000 miles	California LEV-II ULEV	HCHO	0.0002	--	--	0.0000 UP	0.0	--	0.000	0.008	Pass
CA	50,000 miles	California LEV-II ULEV	NMOG	0.0132	--	1.00	0.0006 UP	0.00095	--	0.015	0.040	Pass
CA	50,000 miles	California LEV-II ULEV	NOX	0.045	--	--	0.0024 UP	0.0	--	0.05	0.05	Pass
CA	120,000 miles	California LEV-II ULEV	CO	0.09	--	--	0.0036 UP	0.04	--	0.1	2.1	Pass
CA	120,000 miles	California LEV-II ULEV	HCHO	0.0002	--	--	0.0000 UP	0.0	--	0.000	0.011	Pass
CA	120,000 miles	California LEV-II ULEV	N2O	0.0100	--	--	0.000 UP	0.0	--	0.010	0.070	Pass
CA	120,000 miles	California LEV-II ULEV	NMOG	0.0132	--	1.00	0.0006 UP	0.00241	--	0.016	0.055	Pass
CA	120,000 miles	California LEV-II ULEV	NOX	0.045	--	--	0.0024 UP	0.0	--	0.05	0.07	Pass
CA	120,000 miles	California LEV-II ULEV	OPT-CREE	362	--	--	0.00 UP	0	--	362	--	--

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Certification Summary Information Report

Test Group EMBXJ02.2U2A **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
CA	120,000 miles	California LEV-II ULEV	PM	0.002	--	--	0.0002 UP	0.0	--	0.00	0.01	Pass

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

Test # DMBX10026573 **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 04/10/2013 **Fuel** N/A

Vehicle Class N/A **DF Type** Mfr. Determined

Verify Test Lab ID Ann Arbor Technology Center

Test Results

Test Result Name	Unrounded Test Result	Verify Calculated FE MPG Equivalent Value
Bag 1 Carbon Dioxide	557.5	--
Bag 1 Fuel Economy	18.2	18.2
Bag 2 Carbon Dioxide	444.7	--
Bag 2 Fuel Economy	22.9	22.9
Bag 3 Carbon Dioxide	374.4	--
Bag 3 Fuel Economy	27.2	27.2
Carbon Monoxide	0.1782	--
Manufacturer Fuel Economy	22.7	22.7
Non-methane Hydrocarbon	0.011	--
Total Hydrocarbon	0.022	--

Test Result Name	Unrounded Test Result	Verify Calculated CO2
Carbon dioxide	448.79	--

Manufacturer Test Comments PIR 255/45R19 (Canada Only)

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Certification Summary Information Report

Test Group	EMBXJ02.2U2A	**Evaporative/Refueling Family**	N/A
Test #	**DMBX10026570**	**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	05/03/2013	**Fuel**	Diesel
Vehicle Class	LDV/Passenger Car	**DF Type**	Mfr. Determined
Verify Test Lab ID	Ann Arbor Technology Center		

Test Results

Test Result Name	Unrounded Test Result	Verify Calculated FE MPG Equivalent Value
CH4 - Methane	0.00105	--
Carbon Monoxide	0.0069	--
Manufacturer Fuel Economy	42.3	42.3
Nitrogen Oxide	0.0171	--
Nitrous Oxide	0.01	--
Non-methane Hydrocarbon	0	--
Total Hydrocarbon	0	--

Test Result Name	Unrounded Test Result	Verify Calculated CREE/OPT-CREE
Optional Carbon-Related Exhaust Emissions	243.6	244

Test Result Name	Unrounded Test Result	Verify Calculated CO2
Carbon dioxide	240.6	241

Manufacturer Test Comments PIR 255/45R19 (Canada Only) N20 & OCREE added

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Certification Summary Information Report

Test Group EMBXJ02.2U2A **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	50,000 miles	Federal Tier 2 Bin 5	NOX	0.017	--	--	0.0024 UP	0.0	--	0.02	0.07	Pass
Fed	100,000 miles	Federal Tier 2 Bin 5	OPT-CREE	244	--	--	0 UP	0	--	244	--	--
Fed	120,000 miles	Federal Tier 2 Bin 5	N2O	0.0100	--	--	0.000 UP	0.0	--	0.010	0.070	Pass
Fed	120,000 miles	Federal Tier 2 Bin 5	NOX	0.017	--	--	0.0024 UP	0.0	--	0.02	0.09	Pass
CA	50,000 miles	California LEV-II ULEV	NOX	0.017	--	--	0.0024 UP	0.0	--	0.02	0.07	Pass
CA	120,000 miles	California LEV-II ULEV	N2O	0.0100	--	--	0.000 UP	0.0	--	0.010	0.070	Pass
CA	120,000 miles	California LEV-II ULEV	NOX	0.017	--	--	0.0024 UP	0.0	--	0.02	0.09	Pass
CA	120,000 miles	California LEV-II ULEV	OPT-CREE	244	--	--	0.00 UP	0	--	244	--	--

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

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Certification Summary Information Report

Test Group	EMBXJ02.2U2A	**Evaporative/Refueling Family**	N/A
Test #	**DMBX10026571**	**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	05/03/2013	**Fuel**	Diesel
Vehicle Class	LDV/Passenger Car	**DF Type**	Mfr. Determined
Verify Test Lab ID	Ann Arbor Technology Center		

Test Results

Test Result Name	Unrounded Test Result	Verify Calculated FE MPG Equivalent Value
Bag 1 Carbon Dioxide	545.7	--
Bag 1 Fuel Economy	18.6	18.6
Bag 2 Carbon Dioxide	321.7	--
Bag 2 Fuel Economy	31.6	31.6
Carbon Monoxide	0.0182	--
Manufacturer Fuel Economy	27.4	27.4
Nitrogen Oxide	0.10546	--
Non-methane Hydrocarbon	0	--
SFTP Non-methane Hydrocarbon + Nitrogen Oxides for US06 or SC03	0.10546	--
Total Hydrocarbon	0	--

Test Result Name	Unrounded Test Result	Verify Calculated CO2
Carbon dioxide	371.62	--

Manufacturer Test Comments PIR 255/45R19 (Canada Only)

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	0.02	--	--	0.0036 UP	--	--	0.0	8.0	Pass
Fed	4,000 miles	Federal Tier 2 Bin 5	HC-NM+NOX	0.105	--	--	0.0031 UP	--	--	0.11	0.14	Pass
Fed	120,000 miles	Federal Tier 2 Bin 5	CO	0.02	--	--	0.0036 UP	0.04	--	0.1	11.1	Pass
CA	4,000 miles	California LEV-II ULEV	CO	0.02	--	--	0.0036 UP	--	--	0.0	8.0	Pass
CA	4,000 miles	California LEV-II ULEV	HC-NM+NOX	0.105	--	--	0.0031 UP	--	--	0.11	0.14	Pass

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Certification Summary Information Report

Test Group	EMBXJ02.2U2A	**Evaporative/Refueling Family**	N/A
Test #	**DMBX10026572**	**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	05/03/2013	**Fuel**	Diesel
Vehicle Class	LDV/Passenger Car	**DF Type**	Mfr. Determined
Verify Test Lab ID	Ann Arbor Technology Center		

Test Results

Test Result Name	Unrounded Test Result	Verify Calculated FE MPG Equivalent Value
Carbon Monoxide	0.0604	--
Manufacturer Fuel Economy	25.2	25.2
Nitrogen Oxide	0.06657	--
Non-methane Hydrocarbon	0	--
SFTP Non-methane Hydrocarbon + Nitrogen Oxides for US06 or SC03	0.06657	--
Total Hydrocarbon	0.004	--

Test Result Name	Unrounded Test Result	Verify Calculated CO2
Carbon dioxide	403.92	--

Manufacturer Test Comments PIR 255/45R19 (Canada Only)

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	4,000 miles	Federal Tier 2 Bin 5	CO	0.06	--	--	0.0036 UP	--	--	0.1	2.7	Pass
Fed	4,000 miles	Federal Tier 2 Bin 5	HC-NM+NOX	0.067	--	--	0.0031 UP	--	--	0.07	0.20	Pass
Fed	120,000 miles	Federal Tier 2 Bin 5	CO	0.06	--	--	0.0036 UP	0.04	--	0.1	4.2	Pass
CA	4,000 miles	California LEV-II ULEV	CO	0.06	--	--	0.0036 UP	--	--	0.1	2.7	Pass
CA	4,000 miles	California LEV-II ULEV	HC-NM+NOX	0.067	--	--	0.0031 UP	--	--	0.07	0.20	Pass

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Certification Summary Information Report

Test Group	EMBXJ02.2U2A	**Evaporative/Refueling Family**	N/A

Consolidated List of Standards

Exhaust Standards

Cert Region	Federal	**Cert/In-Use Code**	Both
Vehicle Class	LDV/Passenger Car	**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
50,000 miles	CO	--	--	--	0.0036	0	--	0.02	3.4
50,000 miles	HCHO	--	--	--	0.0000	0	--	0.0	0.015
50,000 miles	NMOG	--	--	1.00	0.0006	0	--	0.00095	0.075
50,000 miles	NOX	--	--	--	0.0024	0	--	0.0	0.05
120,000 miles	CO	--	--	--	0.0036	0	--	0.04	4.2
120,000 miles	HC-NM+NOX-COMP	--	--	--	0.0031	0	--	0.00303	0.95
120,000 miles	HCHO	--	--	--	0.0000	0	--	0.0	0.018
120,000 miles	N2O	--	--	--	0.0000	0	--	0.0	0.070
120,000 miles	NMOG	--	--	1.00	0.0006	0	--	0.00241	0.090
120,000 miles	NOX	--	--	--	0.0024	0	--	0.0	0.07
120,000 miles	OPT-CREE	--	--	--	0	0	--	0	999
120,000 miles	PM	--	--	--	0.0002	0	--	0.0	0.01

Cert Region	California + CAA Section 177 states	**Cert/In-Use Code**	Both
Vehicle Class	LDV/Passenger Car	**Standard Level**	California LEV-II ULEV
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	--	--	--	0.0036	0	--	--	8.0
4,000 miles	HC-NM+NOX	--	--	--	0.0031	0	--	--	0.14

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Certification Summary Information Report

Test Group EMBXJ02.2U2A **Evaporative/Refueling Family** N/A

Cert Region Federal **Cert/In-Use Code** Both
Vehicle Class LDV/Passenger Car **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
50,000 miles	NOX	--	--	--	0.0024	0	--	0.0	0.07
100,000 miles	OPT-CREE	--	--	--	0	0	--	0	999
120,000 miles	N2O	--	--	--	0.000	0	--	0.0	0.070
120,000 miles	NOX	--	--	--	0.0024	0	--	0.0	0.09

Cert Region California + CAA Section 177 states **Cert/In-Use Code** Both
Vehicle Class LDV/Passenger Car **Standard Level** California LEV-II ULEV
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
50,000 miles	CO	--	--	--	0.0036	0	--	0.02	1.7
50,000 miles	HCHO	--	--	--	0.0000	0	--	0.0	0.008
50,000 miles	NMOG	--	--	1.00	0.0006	0	--	0.00095	0.040
50,000 miles	NOX	--	--	--	0.0024	0	--	0.0	0.05
120,000 miles	CO	--	--	--	0.0036	0	--	0.04	2.1
120,000 miles	HCHO	--	--	--	0.0000	0	--	0.0	0.011
120,000 miles	N2O	--	--	--	0.000	0	--	0.0	0.070
120,000 miles	NMOG	--	--	1.00	0.0006	0	--	0.00241	0.055
120,000 miles	NOX	--	--	--	0.0024	0	--	0.0	0.07
120,000 miles	OPT-CREE	--	--	--	0.00	0	--	0	999
120,000 miles	PM	--	--	--	0.0002	0	--	0.0	0.01

Cert Region Federal **Cert/In-Use Code** Both
Vehicle Class LDV/Passenger Car **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	--	--	--	0.0036	0	--	--	2.7
4,000 miles	HC-NM+NOX	--	--	--	0.0031	0	--	--	0.20
120,000 miles	CO	--	--	--	0.0036	0	--	0.04	4.2

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Certification Summary Information Report

Test Group	EMBXJ02.2U2A	**Evaporative/Refueling Family**	N/A

Cert Region	Federal	**Cert/In-Use Code**	Both
Vehicle Class	LDV/Passenger Car	**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	--	--	--	0.0036	0	--	--	8.0
4,000 miles	HC-NM+NOX	--	--	--	0.0031	0	--	--	0.14
120,000 miles	CO	--	--	--	0.0036	0	--	0.04	11.1

Cert Region	California + CAA Section 177 states	**Cert/In-Use Code**	Both
Vehicle Class	LDV/Passenger Car	**Standard Level**	California LEV-II ULEV
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	--	--	--	0.0036	0	--	--	2.7
4,000 miles	HC-NM+NOX	--	--	--	0.0031	0	--	--	0.20

Cert Region	California + CAA Section 177 states	**Cert/In-Use Code**	Both
Vehicle Class	LDV/Passenger Car	**Standard Level**	California LEV-II ULEV
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
50,000 miles	NOX	--	--	--	0.0024	0	--	0.0	0.07
120,000 miles	N2O	--	--	--	0.000	0	--	0.0	0.070
120,000 miles	NOX	--	--	--	0.0024	0	--	0.0	0.09
120,000 miles	OPT-CREE	--	--	--	0.00	0	--	0	999

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Certification Summary Information Report

Test Group	EMBXJ02.2U2A	**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	FE BAG 4	Bag 4 Fuel Economy
CO	Carbon Monoxide	MFR FE	Manufacturer Fuel Economy
CO2	Carbon dioxide	HC	Hydrocarbon for Running Loss and ORVR
CREE	Carbon-Related Exhaust Emissions	METHANE	CH4 - Methane
OPT-CREE	Optional Carbon-Related Exhaust Emissions	METHANOL	CH3OH - Methanol
NOX	Nitrogen Oxide	N2O	Nitrous Oxide
PM	Particulate Matter	SPITBACK	Spitback Hydrocarbon in grams
PM-COMP	SFTP Composite Particulate Matter	AMP-HRS	Integrated Amp-hours
HC-NM	Non-methane Hydrocarbon	START-SOC	System Start State of Charge Watt-hours
OMHCE	Organic material Hydrocarbon Equivalent	END-SOC	System End State of Charge Watt-hours
OMNMHCE	Organic material non-methane HC equivalent	ACT-DISTANCE	Actual Distance Driven (miles)
NMOG	Non-methane organic gas (California)	AS-VOLT	Average System Voltage
HCHO	Formaldehyde	CO2 BAG 1	Bag 1 Carbon Dioxide
H3C2HO	Acetaldehyde	CO2 BAG 2	Bag 2 Carbon Dioxide
HC-NM+NOX	SFTP Non-methane Hydrocarbon + Nitrogen Oxides for US06 or SC03	CO2 BAG 3	Bag 3 Carbon Dioxide
HC-NM+NOX-COMP	SFTP Composite Non-methane Hydrocarbon + Nitrogen Oxides	CO2 BAG 4	Bag 4 Carbon Dioxide
CO-COMP	SFTP Composite Carbon Monoxide	NMOG+NOX	Non-methane organic gases plus Nitrogen Oxides
ETHANOL	C2H5OH - Ethanol	NMOG+NOX-COMP	SFTP Composite Non-methane Organic Gases + Nitrogen Oxides
FE BAG 1	Bag 1 Fuel Economy	DT-IWRR	Drive Trace Inertia Work Ratio Rating
FE BAG 2	Bag 2 Fuel Economy	DT-ASCR	Drive Trace Absolute Speed Change Rating
FE BAG 3	Bag 3 Fuel Economy	DT-EER	Drive Trace Energy Economy Rating

Certification Region			
CA	California + CAA Section 177 states	FA	Federal

Exhaust Emission Standard Level			
B1	Federal Tier 2 Bin 1	L2SULEV30	California LEV-II SULEV30
B2	Federal Tier 2 Bin 2	L2LEV395	California LEV-II LEV395
B3	Federal Tier 2 Bin 3	L2ULEV340	California LEV-II ULEV340
B4	Federal Tier 2 Bin 4	L2LEV630	California LEV-II LEV630
B5	Federal Tier 2 Bin 5	L2ULEV570	California LEV-II ULEV570
B6	Federal Tier 2 Bin 6	L3LEV160	California LEV-III LEV160
B7	Federal Tier 2 Bin 7	L3ULEV125	California LEV-III ULEV125
B8	Federal Tier 2 Bin 8	L3ULEV70	California LEV-III ULEV70
B9	Federal Tier 2 Bin 9	L3ULEV50	California LEV-III ULEV50

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Certification Summary Information Report

Test Group	EMBXJ02.2U2A	**Evaporative/Refueling Family**	N/A
B10	Federal Tier 2 Bin 10	L3SULEV30	California LEV-III SULEV30
B11	Federal Tier 2 Bin 11	L3SULEV20	California LEV-III SULEV20
HDV1	HDV1 (Federal HD chassis Class 2b GVW 8501-10000)	L3LEV395	California LEV-III LEV395
HDV2	HDV2 (Federal HD chassis Class 3 GVW 10001-14000)	L3ULEV340	California LEV-III ULEV340
L2	California LEV-II LEV	L3ULEV250	California LEV-III ULEV250
L2OP	California LEV-II LEV Optional	L3ULEV200	California LEV-III ULEV200
U2	California LEV-II ULEV	L3SULEV170	California LEV-III SULEV170
S2	California LEV-II SULEV	L3SULEV150	California LEV-III SULEV150
ZEV	California ZEV	L3LEV630	California LEV-III LEV630
OT	Other	L3ULEV570	California LEV-III ULEV570
T1	Federal Tier 1	L3ULEV400	California LEV-III ULEV400
PZEV	California PZEV	L3ULEV270	California LEV-III ULEV270
L2LEV160	California LEV-II LEV160	L3SULEV230	California LEV-III SULEV230
L2ULEV125	California LEV-II ULEV125	L3SULEV200	California LEV-III SULEV200
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		
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

S-08: Statements

Please refer to the common application for certification.

S-09: OBD-System Information

The OBD approval is listed in specific section 14.

S-10: Alternate Fuel (if applicable)

This test group does not cover flexible or dedicated alternate fuel vehicles.

S-11: List of AECD

Please refer to S-16 for a detailed description of AECDs including functional explanations.

S-12: Identification and Description of certified vehicles

The identification and description of all vehicles covered by the certificate is given
- in section 02 (common) for exhaust purposes
- in section 03 (common) for evaporative/refuelling families

All appropriate test parameters necessary to conduct an official certification exhaust or evaporative emission test are provided in sections 07 or 17.

S-13: Projected US vehicle sales

Please refer to the common application for certification.

S-14: Request for Certificate

S-14-01: Request for Certificate

Mercedes-Benz requests that EPA issues a certificate of conformity and that ARB issues an executive order for the test group listed on the cover page of this application.

The applicable test results are listed in section 07. The test group complies with all applicable regulations contained within 40 CFR Part 86. The application is current as of this date.

Markus Loesch

Note: Compliance statements are listed in the common section 08.

S-14-02: OBD approval

For OBD approval see confidential section (S-16)

S-14-03: Fee filing form

EPA Form 3520-29 OMB Control No. 2060-0545

EPA

U.S. Environmental Protection Agency
Motor Vehicle and Engine Compliance Program
On-Highway Fee Filing Form
For Certification Applications Received In Calendar Year 2013

Manufacturer Name Mercedes-Benz USA, LLC

Address One Mercedes Drive

City/State/Zip Code/Country Montvale, NJ 07645

On-Highway Certification Request Type (check one)

- ☒ **LDV/LDT/MDPV/HDV (Chassis cert) FEDERAL ($29,848)**
- ☐ **LDV/LDT/MDPV/HDV (Chassis cert) CAL-ONLY ($15,704)**
- ☐ **HDE (Engine Dyno cert) FEDERAL ($44,215)**
- ☐ **HDV EVAP-ONLY ($563)**
- ☐ **HDE CALIF-ONLY ($563)**
- ☐ **MOTORCYCLE ($1,427)**
- ☐ **LD/MDPV/HDV ICI ($68,737)**

EPA standard family or test group: E M B X J 0 2 . 2 U 2 A

Amount paid (U.S. Funds Only): $ 29,848.00

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

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: R-Thomas Brunner Signature: R Thomas Brunner

Title: Dept.Manager, VCA Phone/Fax: 201.573.2622 / Date: 01/11/2013

E-mail Address: r-thomas.brunner@mbusa.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: 1/1/2014

S-14-04: Approval Letters low ash oil

UNITED STATES ENVIRONMENTAL PROTECTION AGENCY
NATIONAL VEHICLE AND FUEL EMISSIONS LABORATORY
2565 PLYMOUTH ROAD
ANN ARBOR, MICHIGAN 48105-2498

OFFICE OF
AIR AND RADIATION

September 27, 2005

RECEIVED
OCT 07 2005
R. R. MODLIN

Mr. Reginald Modlin
Director, Environmental and Energy Planning
DaimlerChrysler Corporation
800 Chrysler Drive
Auburn Hills, MI 48326-2757
CIMS 482-00-71

Mr. Modlin,

Thank you for your August 30, 2005 letter regarding DaimlerChrysler's desire to use low ash content engine oil to certify your clean light-duty diesel vehicles. As you correctly noted in your letter, EPA Guidance Documents CCD-01-12 (Use of GF-3 Engine Oil in Test Vehicles) and CCD-04-07 (Use of GF-4 Engine Oil in Certification and Fuel Economy Test Vehicles) are the basis for how EPA determines how to deal with unique engine oils with respect to certification and fuel economy testing.

EPA agrees that the use of low ash content engine oil (0.8%) will be beneficial to allowing new advanced particulate filter systems to meet their full potential for performing over the full useful life of the vehicles. Our primary concern with manufacturer's request to certify with unique engine oils is that these oils be readily available to consumers. We realize that the number of light-duty diesel vehicles in the U.S. is low and that the demand for clean light-duty diesel engine oil is also low and that it will be initially difficult to establish widespread distribution of low ash oil.

The plan proposed by DaimlerChrysler for the use and certification of low ash content engine oil, which includes the availability of the low ash engine oil at the 4,300 DaimlerChrysler dealerships in the U.S., the investigation of the potential for making the engine oil available through automotive aftermarket retail chains (Auto Zone, NAPA, etc.) through DaimlerChrysler's MOPAR aftermarket organization, and the continued work with oil manufacturers to market the oil through their outlets and promote the use of the oil at "quick oil change" facilities, appears to be reasonable. Therefore, we are approving DaimlerChrylser's plan to use low ash content engine oil for the certification of light-duty diesel vehicles.

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Please let me know if you any additional questions. You can contact me at 734-214-4286.

Sincerely,

Linc Wehrly
Compliance and Innovative Strategies Division
Office of Transportation and Air Quality

S-15: HEV-specific data (if applicable)

No Hybrid Electric Vehicles (HEV) are part of this test group.