EXHAUST EMISSION DATA SHEET

MQ POWER GENERATOR SET

Model: SG1400C4F



The engine used in this generator set is certified to comply with United States EPA Tier 4 and CARB Mobile Off-Highway emission regulations.

ENGINE DATA

Manufacturer:CumminsBore:4.21 in.(107 mm)Model:QSB7-G9Stroke:4.88 in.(124 mm)Type:4-Cycle, In-Line, 6-cylinder, DieselDisplacement: 409 cid (6.7 liters)

Aspiration: Electric Direct Injection, TurboCharged, Charged Air

Cooled, ECM, EGR, DOC, SCR

Compression Ratio: 17.3:1

PERFORMANCE DATA

SAE Gross HP @ 1800 RPM (60 Hz) 282
Rated Load Fuel Consumption (gal/Hr) 13.5
Rated Load Exhaust Gas Flow (cfm) 1038
Rated Load Exhaust Gas Temperature (°F) 795

United States EPA - Mobile Off-Highway Tier 4 Limits - ≤174 ~ <751 BHP

| Criteria Pollutant | Emis | sion Requirements | Certified Engine Emissions | | |
|----------------------------------|-------|-------------------|----------------------------|-----------|--|
| NOx (Oxides of Nitrogen as NO2) | 0.298 | gr/bhp-hr | 0.141 | gr/bhp-hr | |
| HC (Total Unburned Hydrocarbons) | N/A | gr/bhp-hr | N/A | gr/bhp-hr | |
| NOx + HC (Combined) | N/A | gr/bhp-hr | N/A | gr/bhp-hr | |
| CO (Carbon Monoxide) | 2.6 | gr/bhp-hr | 0.0 | gr/bhp-hr | |
| PM (Particulate Matter) | 0.014 | gr/bhp-hr | 0.007 | gr/bhp-hr | |
| NMHC (Non-Methane Hydrocarbons) | 0.141 | gr/bhp-hr | 0.029 | gr/bhp-hr | |
| NMHC + NOx | N/A | gr/bhp-hr | N/A | gr/bhp-hr | |

EPA Engine Family: GCEXL06.7AAL

EPA Certificate of Conformance: GCEXL06.7AAL-037

ARB Executive Order: U-R-002-0635

Effective Date: Model Year 2016

Note: Engine operation with excessive air intake or exhaust restriction beyond factory published maximum limits, or with improper service maintenance, may result in higher emission levels.

Data And Specifications Subject To Change Without Notice Date: 10/05/2016



UNITED STATES ENVIRONMENTAL PROTECTION AGENCY 2016 MODEL YEAR CERTIFICATE OF CONFORMITY WITH THE CLEAN AIR ACT

OFFICE OF TRANSPORTATION AND AIR QUALITY ANN ARBOR, MICHIGAN 48105

Certificate Issued To: Cummins Inc.

(U.S. Manufacturer or Importer)

Certificate Number: GCEXL06.7AAL-037

Effective Date: 11/04/2015

Expiration Date: 12/31/2016

Byron J. Bunker, Division Director

Revision Date:

Issue Date:

11/04/2015

N/A

Model Year: 2016

Manufacturer Type: Original Engine Manufacturer

Engine Family: GCEXL06.7AAL

Mobile/Stationary Indicator: Both Emissions Power Category: 130<kW<=560

Fuel Type: Diesel After Treatment Devices: Diesel Oxidation Catalyst, Ammonia Slip Catalyst, Selective Catalytic

Compliance Division

Reduction

Non-after Treatment Devices: Electronic Control, Electronic/Electric EGR - Cooled

Pursuant to Section 111 and Section 213 of the Clean Air Act (42 U.S.C. sections 7411 and 7547) and 40 CFR Parts 60 and 1039, and subject to the terms and conditions prescribed in those provisions, this certificate of conformity is hereby issued with respect to the test engines which have been found to conform to applicable requirements and which represent the following engines, by engine family, more fully described in the documentation required by 40 CFR Parts 60 and 1039 and produced in the stated model year.

This certificate of conformity covers only those new compression-ignition engines which conform in all material respects to the design specifications that applied to those engines described in the documentation required by 40 CFR Parts 60 and 1039 and which are produced during the model year stated on this certificate of the said manufacturer, as defined in 40 CFR Parts 60 and 1039.

It is a term of this certificate that the manufacturer shall consent to all inspections described in 40 CFR 1068 and authorized in a warrant or court order. Failure to comply with the requirements of such a warrant or court order may lead to revocation or suspension of this certificate for reasons specified in 40 CFR Parts 60 and 1039. It is also a term of this certificate that this certificate may be revoked or suspended or rendered void ab initio for other reasons specified in 40 CFR Parts 60 and 1039.

This certificate does not cover engines sold, offered for sale, or introduced, or delivered for introduction, into commerce in the U.S. prior to the effective date of the certificate.

California Environmental Protection Agency D Air Resources Board

CUMMINS INC.

EXECUTIVE ORDER U-R-002-0635 New Off-Road Compression-Ignition Engines

Pursuant to the authority vested in the Air Resources Board by Sections 43013, 43018, 43101, 43102, 43104 and 43105 of the Health and Safety Code; and

Pursuant to the authority vested in the undersigned by Sections 39515 and 39516 of the Health and Safety Code and Executive Order G-14-012;

IT IS ORDERED AND RESOLVED: That the following compression-ignition engines and emission control systems produced by the manufacturer are certified as described below for use in off-road equipment. Production engines shall be in all material respects the same as those for which certification is granted.

| MODEL YEAR | ENGINE FAMILY | DISPLACEMENT (liters) | FUEL TYPE | USEFUL LIFE (hours) |
|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-------------------------------------------------------------------------------------------------------------|-----------------------------------------|-------------------|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| 2016 | GCEXL06.7AAL | 6.7 | Diesel | 8000 |
| The state of the s | FEATURES & EMISSION | | TYPICAL EQUIPMENT | Colonial and the Colonial Colo |
| Cooler | c Direct Injection, Turbo r, Electronic Control Mod lation, Diesel Oxidation Reduction-Urea, Ammon | ule, Exhaust Gas Catalyst, Selective | Generator S | Set |

The engine models and codes are attached.

The following are the exhaust certification standards (STD) and certification levels (CERT) for non-methane hydrocarbon (NMHC), oxides of nitrogen (NOx), or non-methane hydrocarbon plus oxides of nitrogen (NMHC+NOx), carbon monoxide (CO), and particulate matter (PM) in grams per kilowatt-hour (g/kw-hr), and the opacity-of-smoke certification standards and certification levels in percent (%) during acceleration (Accel), lugging (Lug), and the peak value from either mode (Peak) for this engine family (Title 13, California Code of Regulations, (13 CCR) Section 2423):

| POWER CLASS | EMISSION STANDARD CATEGORY | | EXHAUST (g/kw-hr) | | | | | OPACITY (%) | | |
|----------------|----------------------------|------|-------------------|------|----------|------|------|-------------|-----|------|
| | | | NMHC | NOx | NMHC+NOx | СО | PM | ACCEL | LUG | PEAK |
| 130 ≤ kW ≤ 560 | Tier 4 Final | STD | 0.19 | 0.40 | N/A | 3.5 | 0.02 | N/A | N/A | N/A |
| | | CERT | 0.04 | 0.19 | | 0.00 | 0.01 | | | |

BE IT FURTHER RESOLVED: That for the listed engine models, the manufacturer has submitted the information and materials to demonstrate certification compliance with 13 CCR Section 2424 (emission control labels), and 13 CCR Sections 2425 and 2426 (emission control system warranty).

Engines certified under this Executive Order must conform to all applicable California emission regulations.

This Executive Order is only granted to the engine family and model-year listed above. Engines in this family that are produced for any other model-year are not covered by this Executive Order.

Executed at El Monte, California on this

_ day of October 2015.

Annette Hebert, Chief

Emissions Compliance, Automotive Regulations and Science Division

Engine Model Summary Template

u-N-002-0635

Attachment ps 1/1 9/18/2015

| Engine Family | 1.Engine Code | 2.Engine Model | 3.BHP@RPM (SAE Gross) | 4.Fuel Rate: mm/stroke @ peak HP (for diesel only) | 5.Fuel Rate: (lbs/hr) @ peak HP (for diesels only) | 6.Torque @ RPM (SEA Gross) | 7.Fuel Rate: mm/stroke@peak torque | | 9.Emission Control DeDevice Per SAE J1930 |
|---------------|-------------------|----------------|--------------------------|----------------------------------------------------------|----------------------------------------------------------|-------------------------------|------------------------------------------|-----|----------------------------------------------|
| GCEXL06.7AAL | 4197:9419 | QSB7-G | 274@1500 | 192 | 98 | N/A | N/A | N/A | ECM,EGR, 06,SCF |
| GCEXL06.7AAL | 4197:94194 | QSB7-G | 314@1800 | 182 | 111 | N/A | N/A | N/A | ECM,EGR, 00 ,SCF |
| GCEXL06.7AAL | 4197:94761 | QSB7-G | 274@1500 | 192 | 98 | N/A | N/A | N/A | ECM,EGR,⊖€,SCF |
| GCEXL06.7AAL | 4197:94761 | QSB7-G | 314@1800 | 182 | 111 | N/A | N/A | N/A | ECM,EGR, OG ,SCF |
| GCEXL06.7AAL | 4197:94793 | QSB7-G | 222@1500 | 146 | 74 | N/A | N/A | N/A | ECM,EGR,QC,SCF |
| GCEXL06.7AAL | 4197:94793 | QSB7-G | 241@1800 | 135 | 82 | N/A | N/A | N/A | ECM,EGR, OC ,SCF |
| | | | | | | | | | DDI, Te, DUC, Amex |