

EXHAUST EMISSION DATA SHEET

MQ POWER GENERATOR SET

Model: DCA-125SSJU4i



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

ENGINE DATA

| | |
|--|---|
| Manufacturer: JOHN DEERE | Bore: 4.17 in. (106 mm) |
| Model: 4045HFG92 | Stroke: 5.0 in. (127 mm) |
| Type: 4-Cycle, In-line, 4-Cylinder, Diesel | Displacement: 274 cid (4.5 liters) |
| Aspiration: Turbocharger, Charge Air Cooler ECM, EGR, DOC, PTO | Compression Ratio: 16.5:1 |

PERFORMANCE DATA

| | |
|---|-----|
| SAE Gross HP @ 1800 RPM (60 Hz) | 166 |
| Rated Load Fuel Consumption (gal/Hr) | 7.3 |
| Rated Load Exhaust Gas Flow (cfm) | 539 |
| Rated Load Exhaust Gas Temperature (°F) | 871 |

United States EPA - Mobile Off-Highway Tier 4i Limits - 100 ≤ ~ < 173 BHP

| Criteria Pollutant | Emission Requirements | Certified Engine Emissions |
|----------------------------------|-----------------------|----------------------------|
| NOx (Oxides of Nitrogen as NO2) | 2.535 gr/bhp-hr | 2.31 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) | 3.728 gr/bhp-hr | 0.074 gr/bhp-hr |
| PM (Particulate Matter) | 0.0149 gr/bhp-hr | 0.0074 gr/bhp-hr |
| NMHC (Non-Methane Hydrocarbons) | 0.141 gr/bhp-hr | 0 gr/bhp-hr |

| | |
|--|------------------|
| EPA Engine Family: | DJDXL06.8210 |
| EPA Certificate of Conformance: | DJDXL06.8210-019 |
| ARB Executive Order: | U-R-004-0473 |
| Effective Date: | Model Year 2013 |

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.



**UNITED STATES ENVIRONMENTAL PROTECTION AGENCY
2013 MODEL YEAR
CERTIFICATE OF CONFORMITY
WITH THE CLEAN AIR ACT OF 1990**

**OFFICE OF TRANSPORTATION
AND AIR QUALITY
ANN ARBOR, MICHIGAN 48105**

Certificate Issued To: Deere & Company
(U.S. Manufacturer or Importer)

Certificate Number: DJDXL06.8210-019

Effective Date:
11/09/2012

Expiration Date:
12/31/2013

Byron J. Burdker, Acting Division Director
Compliance Division

Issue Date:
11/09/2012

Revision Date:
N/A

Model Year: 2013

Manufacturer Type: Original Engine Manufacturer

Engine Family: DJDXL06.8210

Mobile/Stationary Indicator: Both

Emissions Power Category: 75<=kW<130

Fuel Type: Diesel

After Treatment Devices: Diesel Oxidation Catalyst, PTOX-DPF-Active

Non-after Treatment Devices: Engine Design Modification, Non-standard Non-After Treatment Device Installed, Electronic/Electric EGR - Cooled, Smoke Puff Limiter, Electronic Control

FELs: PM 0.01 g/kW-hr, NOx 3.2 g/kW-hr

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.

This certificate of conformity is conditional upon compliance of said manufacturer with the averaging, banking and trading provisions of 40 CFR Part 1039, Subpart H. Failure to comply with these provisions may render this certificate void *ab initio*.

The actual engine power may lie outside the limits of the Emissions Power Category shown above. See the certificate application for details.

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-02-003;

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) |
|---|---------------|-----------------------|--------------------------------------|---------------------|
| 2013 | DJDXL06.8210 | 4.5, 6.5 | Diesel | 8000 |
| SPECIAL FEATURES & EMISSION CONTROL SYSTEMS | | | TYPICAL EQUIPMENT APPLICATION | |
| Charge Air Cooler, Diesel Oxidation Catalyst, Direct Diesel Injection, Electronic Control Module, Exhaust Gas Recirculation, Periodic Trap Oxidizer, Smoke Puff Limiter, Turbocharger | | | Generator Set | |

The engine models and codes are attached.

The following are the exhaust certification standards (STD), or family emission limit(s) (FEL) as applicable, and certification levels (CERT) for hydrocarbon (HC), 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):

| RATED POWER CLASS | EMISSION STANDARD CATEGORY | | EXHAUST (g/kw-hr) | | | | | OPACITY (%) | | |
|-------------------|----------------------------|------|-------------------|-----|----------|-----|------|-------------|-----|------|
| | | | NMHC | NOx | NMHC+NOx | CO | PM | ACCEL | LUG | PEAK |
| 75 ≤ kW < 130 | Interim Tier 4 / ALT NOx | STD | 0.19 | 3.4 | N/A | 5.0 | 0.02 | N/A | N/A | N/A |
| | | FEL | -- | 3.2 | -- | -- | 0.01 | -- | -- | -- |
| | | CERT | 0.000 | 3.1 | -- | 0.1 | 0.01 | -- | -- | -- |

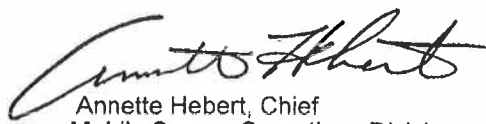
BE IT FURTHER RESOLVED: That the family emission limit(s) (FEL) is an emission level declared by the manufacturer for use in any averaging, banking and trading program and in lieu of an emission standard for certification. It serves as the applicable emission standard for determining compliance of any engine within this engine family under 13 CCR Sections 2423 and 2427.

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 10 day of December 2012.


 Annette Hebert, Chief
 Mobile Source Operations Division