

# EXHAUST EMISSION DATA SHEET

## MQ POWER GENERATOR SET

Model: DCA220SSJU4F3/B/PB/PD



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

<b>Manufacturer:</b> JOHN DEERE	<b>Bore:</b> 4.17 in. (106 mm)
<b>Model:</b> 6068HFG05	<b>Stroke:</b> 5.0 in. (127 mm)
<b>Type:</b> 4-Cycle, In-Line, 6-Cylinder, Diesel	<b>Displacement:</b> 415 cid (6.8 liters)
<b>Aspiration:</b> Turbocharger, ECM, EGR, DOC, SCR Electronic Direct Injection, Charge Air Cooler	<b>Compression Ratio:</b> 17.2:1

### PERFORMANCE DATA

SAE Gross HP @ 1800 RPM (60 Hz) Rated	215
Load Fuel Consumption (gal/Hr) Rated	8.9
Load Exhaust Gas Flow (cfm) Rated Load	812
Exhaust Gas Temperature (°F)	685

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

Criteria Pollutant	Emission Requirements	NTE Engine Emissions
NOx (Oxides of Nitrogen as NO2)	0.298 gr/bhp-hr	0.447 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)	2.60 gr/bhp-hr	3.28 gr/bhp-hr
PM (Particulate Matter)	0.014 gr/bhp-hr	0.022 gr/bhp-hr
NMHC (Non-Methane Hydrocarbons)	0.141 gr/bhp-hr	0.208 gr/bhp-hr
NMHC + NOx	N/A gr/bhp-hr	N/A gr/bhp-hr

EPA Engine Family:	RJDXL06.8312
EPA Certificate of Conformance:	RJDXL06.8312-014
ARB Executive Order:	U-R-004-0665
Effective Date:	Model Year 2024

**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.

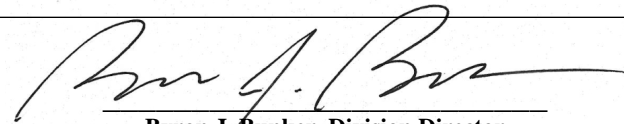


UNITED STATES ENVIRONMENTAL PROTECTION AGENCY  
2024 MODEL YEAR  
CERTIFICATE OF CONFORMITY  
WITH THE CLEAN AIR ACT

OFFICE OF TRANSPORTATION  
AND AIR QUALITY  
ANN ARBOR, MICHIGAN 48105

**Certificate Issued To:** Deere & Company  
(U.S. Manufacturer or Importer)  
**Certificate Number:** RJDXL06.8312-014

**Effective Date:**  
09/29/2023  
**Expiration Date:**  
12/31/2024

  
Byron J. Bunker, Division Director  
Compliance Division

**Issue Date:**  
09/29/2023  
**Revision Date:**  
N/A

**Model Year:** 2024  
**Manufacturer Type:** Original Engine Manufacturer  
**Engine Family:** RJDXL06.8312

**Mobile/Stationary Indicator:** Both  
**Emissions Power Category:** 130<=kW<=560  
**Fuel Type:** Diesel  
**After Treatment Devices:** Diesel Oxidation Catalyst, Ammonia Slip Catalyst, Selective Catalytic Reduction  
**Non-after Treatment Devices:** Electronic Control, Electronic/Electric EGR - Cooled, Non-standard Non-After Treatment Device Installed

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.

Pursuant to the authority vested in the California Air Resources Board by Health and Safety Code Division 26, Part 5, Chapters 1 and 2; and pursuant to the authority vested in the undersigned by Health and Safety Code Sections 39515 and 39516 and Executive Order G-19-095;

**IT IS ORDERED AND RESOLVED:** The engines and emission control systems produced by the manufacturer as described below are certified 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	Combustion Cycle	Fuel Operation	Fuel Type(s)	Engine Operation
2024	RJDXL06.8312	Diesel	Dedicated	Diesel	Constant Speed

Emission Control Systems	Special Features
[1]: Electronic Direct Injection (DDI), Charged Air Cooler (CAC), Exhaust Gas Recirculation (EGR), Electronic Control Module (ECM), Turbocharger (TC), Diesel Oxidation Catalyst (DOC), Selective Catalytic Reduction – Urea (SCR-U), Ammonia Oxidation Catalyst (AMOX)	None

The certified engine models are attached.

The listed engine models comply with the following: 1) emission standard limits (STD) and Not-To-Exceed (NTE) limits, as applicable, for criteria pollutants non-methane hydrocarbons (NMHC), nitrogen oxides (NOx), carbon monoxide (CO), and particulate matter (PM), and for smoke opacity as demonstrated during the Acceleration (ACL) and Lugging (LUG) modes, and the peak value (PEAK) in either mode of the Smoke Opacity cycle, as set forth in 13 CCR 2423 and the applicable California test procedures for off-road compression-ignition engines, and 2) family emission limits (FEL) declared by the manufacturer as allowed by the applicable California test procedures, stated in units of gram per kilowatt-hour (g/kWh-hr) and percent opacity (%opacity), respectively, except as noted, or designated as not applicable (\*).

Applicable Standard		Criteria				Smoke Opacity		
		NMHC	NOx	CO	PM	ACL	LUG	PEAK
Tier 4 Final 130 ≤ kW ≤ 560	STD	0.19	0.40	3.5	0.02	*	*	*
	FEL	*	*	*	*	*	*	*
	NTE	0.28	0.60	4.4	0.03	*	*	*

**BE IT FURTHER RESOLVED:** Any declared FEL is the emission limit to which all engines must comply in lieu of the standard limit for certification purposes, subject to the restrictions of averaging, banking, or trading (ABT) programs allowed by the applicable California test procedures.

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

**BE IT FURTHER RESOLVED:** The listed engine models may only be installed in or on equipment such that engine operation is consistent with off-road compression-ignition engines as defined in 13 CCR 2421(a)(39).

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

Executed on this 21st day of August 2023.



Robin U. Lang, Chief  
Emissions Certification and Compliance Division

**ATTACHMENT: ENGINE MODELS**

Family: RJDXL06.8312 EO Number: U-R-004-0665 Date Applicable: 07/28/2023

Model	Code	Trim	Config	Displacement	Peak Power			Peak Torque			ECS Num	GHG	Notes
					Power	Speed	Fueling	Torque	Speed	Fueling			
-	-	-	-	Liters	kilowatt	rpm	mm3/stroke	N-m	rpm	mm3/stroke	-	-	-
6068	6068HFG05A		I-6	6.8	192	1800	143.5	1019	1800	143.5	1	N/A	
6068	6068HFG05B		I-6	6.8	160	1800	119.4	849	1800	119.4	1	N/A	
6068	6068HFG05C		I-6	6.8	165	1500	145.4	1050	1500	145.4	1	N/A	
6068	6068HFG05D		I-6	6.8	160	1500	142.3	1019	1500	142.3	1	N/A	
6068	6068HFG06A		I-6	6.8	241	1800	180.4	1279	1800	180.4	1	N/A	
6068	6068HFG06B		I-6	6.8	216	1800	159.8	1146	1800	159.8	1	N/A	
6068	6068HFG06C		I-6	6.8	197	1500	176.6	1254	1500	176.6	1	N/A	
6068	6068HPRNT7		I-6	6.8	248	1800	184.6	1316	1800	184.6	1	N/A	