

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)
2012	CJDXL06.8117	4.5, 6.8	Diesel	8000
SPECIAL FEATURES & EMISSION CONTROL SYSTEMS			TYPICAL EQUIPMENT APPLICATION	
Electronic Control Module, Direct Diesel Injection, Turbocharger, Charge Air Cooler, Smoke Puff Limiter			Loaders, Tractor, Dozer, Pump, Generator Set, Compressor, Other Industrial Equipment	

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 20% NOx and PM	STD	0.19	3.4	N/A	5.0	0.02	20	15	50
		FEL	--	3.7	--	--	0.30	--	--	--
		CERT	0.15	3.3	--	1.5	0.25	13	3	25

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 19 day of January 2012.


 Annette Hebert, Chief
 Mobile Source Operations Division

12-13-2011

Engine Model Summary Form

U-R-004-0460

Attachment: Page 1 of 1

Manufacturer: John Deere Power Systems
 Engine category: Nonroad CI
 EPA Engine Family: CJDXLQ6.8117
 Mfr Family Name: 350HAH
 Process Code: Correction

1. Engine code	2. Engine Model	3. kW@RPM (SAE Gross)	4. Fuel Rate: mm/stroke@peak kW (for diesel only)	5. Fuel Rate: (kg/hr)@peak kW (for diesels only)	6. Torque (Nm) @RPM (SEA Gross)	7. Fuel Rate: mm/stroke@peak torque	8. Fuel Rate: (kg/hr)@peak torque	9. Emission Control Device Per SAE J1930
4045HF285A	4045H	109.0@2400	111.5@2400	27.3@2400	560.9@1600	131.8@1600	21.51@1600	CACDFI TC CAC
4045HP052C	4045H	87.0@2100	96.9@2100	20.76@2100	479.8@1575	113.9@1575	18.3@1575	CACDFI TC CAC
4045HP052A	4045H	101.0@2100	111.5@2100	23.88@2100	520.6@1575	122.4@1575	19.66@1575	CACDFI TC CAC
4045HP052B	4045H	96.0@2100	105.5@2100	22.6@2100	524.4@1575	122.5@1575	19.68@1575	CACDFI TC CAC
6068HRW81	6068H	129.0@2100	90.5@2100	29.08@2100	780@1500	119.7@1500	27.47@1500	CACDFI TC CAC

DDI, ECM, SPL
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