

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)
2015	FJDXL06.8302	4.5, 6.8	Diesel	8000
SPECIAL FEATURES & EMISSION CONTROL SYSTEMS			TYPICAL EQUIPMENT APPLICATION	
Charge Air Cooler, Oxidation Catalyst, Electronic Direct Injection, Electronic Control Module, Exhaust Gas Recirculation, Periodic Trap Oxidizer, Turbocharger, Selective Catalytic Reduction-Urea, Ammonia Oxidation Catalyst			Tractor, Loaders, Dozer, Pump, Compressor, Generator Set, 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	STD	EXHAUST (g/kw-hr)					OPACITY (%)		
			NMHC	NOx	NMHC+NOx	CO	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
		FEL	--	--	--	--	0.01	--	--	--
		CERT	0.03	0.16	--	0.03	0.003	--	--	--

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 22nd day of October 2014.

Annette Hebert, Chief
 Emissions Compliance, Automotive Regulations and Science Division

EO#: U-R-004-0496

Attachment: Page 1 of 2

9-29-2014

Engine Model Summary Form

Manufacturer: John Deere Power Systems
 Engine category: Nonroad CI
 EPA Engine Family: FJDXL06.B302
 MR Family Name: 350HCA
 Process Code: New Submission

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: (kW/hr)@peak torque	9. Emission Control Device Per SAE J1930
6068HDW86	6068	178@1800	158.6@1800	43.7@1800	1115@1400	164.7@1400	35.2@1400	EGR FC PTOX OC SCRC NH3OC DFI TC CAC
6068HDW87	6068	152@2200	96.6@2200	32.5@2200	935@1600	129.9@1600	31.8@1600	EGR FC PTOX OC SCRC NH3OC DFI TC CAC
6068HE001	6068	190@2400	109.5@2400	40.2@2400	989@1800	140.3@1600	34.3@1600	EGR FC PTOX OC SCRC NH3OC DFI TC CAC
6068HE002	6068	224@2400	131.3@2400	48.2@2400	1141@1800	163.5@1600	39.9@1600	EGR FC PTOX OC SCRC NH3OC DFI TC CAC
6068HFC08A	6068	187@2400	108.2@2400	39.7@2400	1000@1600	140.4@1600	34.9@1600	EGR FC PTOX OC SCRC NH3OC DFI TC CAC
6068HFC08B	6068	187@2200	114.8@2200	38.8@2200	1000@1600	139.6@1600	34.1@1600	EGR FC PTOX OC SCRC NH3OC DFI TC CAC
6068HFC08C	6068	168@2400	96.7@2400	36.8@2400	900@1600	126.4@1600	30.8@1600	EGR FC PTOX OC SCRC NH3OC DFI TC CAC
6068HFC08D	6068	168@2400	96.8@2400	36.2@2400	900@1600	126@1600	30.8@1600	EGR FC PTOX OC SCRC NH3OC DFI TC CAC
6068HFC08E	6068	168@2200	105.1@2200	35.4@2200	970@1600	135.2@1600	33.1@1600	EGR FC PTOX OC SCRC NH3OC DFI TC CAC
6068HFC08F	6068	188@2000	114.0@2000	34.8@2000	1000@1600	140.1@1600	34.3@1600	EGR FC PTOX OC SCRC NH3OC DFI TC CAC
6068HFC08G	6068	149@2400	80.3@2400	33.1@2400	800@1600	111.1@1600	27.2@1600	EGR FC PTOX OC SCRC NH3OC DFI TC CAC
6068HFC08H	6068	149@2400	86.7@2400	32.9@2400	800@1600	111@1600	27.2@1600	EGR FC PTOX OC SCRC NH3OC DFI TC CAC
6068HFC08I	6068	149@2200	95.8@2200	32.2@2200	873@1600	119.6@1600	29.3@1600	EGR FC PTOX OC SCRC NH3OC DFI TC CAC
6068HFC08J	6068	149@2000	101.7@2000	31.1@2000	960@1600	136.1@1600	33.3@1600	EGR FC PTOX OC SCRC NH3OC DFI TC CAC
6068HFC08K	6068	138@2400	83.3@2400	30.5@2400	740@1600	103.8@1600	25.4@1600	EGR FC PTOX OC SCRC NH3OC DFI TC CAC
6068HFC08L	6068	138@2400	83.0@2400	30.4@2400	741@1600	102.7@1600	25.1@1600	EGR FC PTOX OC SCRC NH3OC DFI TC CAC
6068HFC08M	6068	138@2200	87.8@2200	29.5@2200	809@1600	112.6@1600	27.6@1600	EGR FC PTOX OC SCRC NH3OC DFI TC CAC
6068HFC08N	6068	138@2000	95.3@2000	29.1@2000	880@1600	128@1600	30.8@1600	EGR FC PTOX OC SCRC NH3OC DFI TC CAC
6068HFC08C	6068	187@2000	125.6@2000	38.4@2000	1000@1600	140.3@1600	34.3@1600	EGR FC PTOX OC SCRC NH3OC DFI TC CAC
6068HFC08A	6068	224@2400	131.2@2400	48.8@2400	1141@1800	163.4@1600	39.3@1600	EGR FC PTOX OC SCRC NH3OC DFI TC CAC
6068HFC08B	6068	224@2200	140.8@2200	47.3@2200	1141@1800	151.1@1600	39.3@1600	EGR FC PTOX OC SCRC NH3OC DFI TC CAC
6068HFC08C	6068	205@2400	120.7@2400	44.3@2400	1057@1600	150.6@1600	39.1@1600	EGR FC PTOX OC SCRC NH3OC DFI TC CAC
6068HFC08D	6068	205@2200	127.8@2200	43.0@2200	1057@1600	150.2@1600	39.0@1600	EGR FC PTOX OC SCRC NH3OC DFI TC CAC
6068HFC08E	6068	187@2400	108.4@2400	39.8@2400	1028@1600	145.8@1600	35.6@1600	EGR FC PTOX OC SCRC NH3OC DFI TC CAC
6068HFC08F	6068	187@2200	116.2@2200	39.1@2200	1028@1600	145.7@1600	35.6@1600	EGR FC PTOX OC SCRC NH3OC DFI TC CAC
6068HFC08G	6068	168@2400	98.3@2400	36.1@2400	1000@1600	141.0@1600	34.5@1600	EGR FC PTOX OC SCRC NH3OC DFI TC CAC
6068HFC08H	6068	168@2200	105.1@2200	35.4@2200	1000@1600	142.4@1600	34.8@1600	EGR FC PTOX OC SCRC NH3OC DFI TC CAC
6068HFC08I	6068	168@2200	107.2@2200	36.1@2200	1000@1600	143.7@1600	35.1@1600	EGR FC PTOX OC SCRC NH3OC DFI TC CAC
6068HFC08A	6068	180@1800	132.6@1800	36.5@1800	N/A	N/A	N/A	EGR FC PTOX OC SCRC NH3OC DFI TC CAC
6068HFC08B	6068	150@1800	111.3@1800	30.6@1800	N/A	N/A	N/A	EGR FC PTOX OC SCRC NH3OC DFI TC CAC
6068HFC08A	6068	241@1800	181.4@1800	47.3@1800	N/A	N/A	N/A	EGR FC PTOX OC SCRC NH3OC DFI TC CAC
6068HFC08B	6068	216@1800	163.5@1800	44.9@1800	N/A	N/A	N/A	EGR FC PTOX OC SCRC NH3OC DFI TC CAC
6068HL498	6068	154@2100	104.0@2100	33.3@2100	842@1800	122@1600	26.7@1600	EGR FC PTOX OC SCRC NH3OC DFI TC CAC
6068HL499	6068	190@2100	122.3@2100	39.3@2100	1000@1600	140.4@1600	34.3@1600	EGR FC PTOX OC SCRC NH3OC DFI TC CAC
6068HL501	6068	190@2100	123.9@2100	39.6@2100	1024@1600	145@1600	35.5@1600	EGR FC PTOX OC SCRC NH3OC DFI TC CAC
6068HN059	6068	224@2400	131.3@2400	48.2@2400	1141@1800	163.5@1600	40.0@1600	EGR FC PTOX OC SCRC NH3OC DFI TC CAC
6068HPRINT5	6068	236@2400	136.5@2400	50.1@2400	1309@1600	187.4@1600	45.8@1600	EGR FC PTOX OC SCRC NH3OC DFI TC CAC
6068HT099	6068	190@2100	122.3@2100	39.3@2100	1000@1600	140.4@1600	34.3@1600	EGR FC PTOX OC SCRC NH3OC DFI TC CAC
6068HT100	6068	190@2100	123.9@2100	39.6@2100	1025@1600	145.0@1600	35.5@1600	EGR FC PTOX OC SCRC NH3OC DFI TC CAC
6068HT101	6068	190@2100	122.3@2100	39.3@2100	1000@1600	140.4@1600	34.3@1600	EGR FC PTOX OC SCRC NH3OC DFI TC CAC

ECM

N/A
N/A
N/A
N/A

EO#: U-R-004-0496

Attachment: Page 2 of 2

9-29-2014

6068HT107	6068	213@1900	154.1@1900	44.8@1900	1141@1600	186.6@1600	40.7@1600	EGR	PTOX	OC	SCRC	NH3OC	DFI	TC	CAC	ECM
6068HT108	6068	156@2100	103.7@2100	33.3@2100	842@1600	121.5@1600	29.7@1600	EGR	PTOX	OC	SCRC	NH3OC	DFI	TC	CAC	
6068HT113	6068	156@2100	103.7@2100	33.3@2100	842@1600	121.5@1600	29.7@1600	EGR	PTOX	OC	SCRC	NH3OC	DFI	TC	CAC	
6068HT114	6068	190@2100	122.3@2100	39.3@2100	1000@1600	140.4@1600	34.3@1600	EGR	PTOX	OC	SCRC	NH3OC	DFI	TC	CAC	
6068HT115	6068	190@2100	122.3@2100	39.3@2100	1025@1600	145.0@1600	35.5@1600	EGR	PTOX	OC	SCRC	NH3OC	DFI	TC	CAC	
6068HTJ58	6068	224@2200	143.1@2200	48.1@2200	1170@1600	168.9@1600	40.8@1600	EGR	PTOX	OC	SCRC	NH3OC	DFI	TC	CAC	
6068HTJ59	6068	190@2200	120.9@2200	40.7@2200	1025@1600	145.0@1600	35.5@1600	EGR	PTOX	OC	SCRC	NH3OC	DFI	TC	CAC	
6068RW406A	6068	221@2100	145.9@2100	46.9@2100	1171@1600	167.6@1600	41.0@1600	EGR	PTOX	OC	SCRC	NH3OC	DFI	TC	CAC	
6068RW406B	6068	224@2100	147.0@2100	47.2@2100	1245@1600	181.3@1600	43.7@1600	EGR	PTOX	OC	SCRC	NH3OC	DFI	TC	CAC	
6068RW407A	6068	221@2100	145.9@2100	46.9@2100	1171@1600	167.6@1600	41.0@1600	EGR	PTOX	OC	SCRC	NH3OC	DFI	TC	CAC	
6068RW407B	6068	224@2100	147.0@2100	47.2@2100	1245@1600	181.3@1600	43.7@1600	EGR	PTOX	OC	SCRC	NH3OC	DFI	TC	CAC	
6068RW410	6068	190@2100	123.0@2100	39.5@2100	1025@1600	142.3@1600	34.6@1600	EGR	PTOX	OC	SCRC	NH3OC	DFI	TC	CAC	
6068RW411	6068	190@2100	123.0@2100	39.5@2100	1025@1600	142.3@1600	34.6@1600	EGR	PTOX	OC	SCRC	NH3OC	DFI	TC	CAC	
6068RW423	6068	190@2100	122.3@2100	39.3@2100	1000@1600	140.4@1600	34.3@1600	EGR	PTOX	OC	SCRC	NH3OC	DFI	TC	CAC	
6068RW424	6068	190@2100	123.9@2100	38.8@2100	1025@1600	145.0@1600	35.5@1600	EGR	PTOX	OC	SCRC	NH3OC	DFI	TC	CAC	
6068RW429	6068	154@2100	104.0@2100	33.3@2100	842@1600	122@1600	29.7@1600	EGR	PTOX	OC	SCRC	NH3OC	DFI	TC	CAC	