

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)
2014	EJDXL06.8302	4.5, 6.8	Diesel	8000
SPECIAL FEATURES & EMISSION CONTROL SYSTEMS			TYPICAL EQUIPMENT APPLICATION	
Charge Air Cooler, Diesel 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):

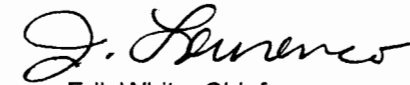
RATED POWER CLASS	EMISSION STANDARD CATEGORY		EXHAUST (g/kw-hr)					OPACITY (%)		
			NMHC	NOx	NMHC+NOx	CO	PM	ACCEL	LUG	PEAK
130 ≤ kW ≤ 560	Tier 4 Final	STD	0.19	0.40	N/A	3.5	0.02	N/A	N/A	N/A
		CERT	0.03	0.16	--	0.03	0.003	--	--	--

**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 6<sup>th</sup> day of June 2013.

  
 Erik White, Chief  
 Mobile Source Operations Division

EO#: U-R-004-0477

R/C: 6/27/14

Attachment: Page 1 of 2

Engine Model Summary Form

Manufacturer: John Deere Power Systems  
 Engine category: Nonroad CI  
 EPA Engine Family: EJDXL06.8302  
 Mfr Family Name: 350HCA  
 Process Code: Running Change

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
8068HDW66	8068	178.0@1800	158.8@1800	43.73@1800	1115@1400	164.7@1400	35.28@1400	EGR EC PTOX OC SCRC NH3OC DFI TC CAC
8068HDW87	8068	152.0@2200	96.6@2200	32.52@2200	935@1600	129.9@1600	31.8@1600	EGR EC PTOX OC SCRC NH3OC DFI TC CAC
8068HE001	8068	190.0@2400	109.5@2400	40.21@2400	999@1600	140.3@1600	34.35@1600	EGR EC PTOX OC SCRC NH3OC DFI TC CAC
8068HE002	8068	224.0@2400	131.3@2400	48.21@2400	1141@1600	163.5@1600	40.03@1600	EGR EC PTOX OC SCRC NH3OC DFI TC CAC
8068HFC08A	8068	187.0@2400	106.2@2400	39.73@2400	1000@1600	140.4@1600	34.37@1600	EGR EC PTOX OC SCRC NH3OC DFI TC CAC
8068HFC08B	8068	187.0@2200	114.8@2200	38.84@2200	1000@1600	139.8@1600	34.17@1600	EGR EC PTOX OC SCRC NH3OC DFI TC CAC
8068HFC08C	8068	185.0@2400	99.7@2400	36.81@2400	900@1600	126.4@1600	30.94@1600	EGR EC PTOX OC SCRC NH3OC DFI TC CAC
8068HFC08D	8068	168.0@2400	98.8@2400	36.28@2400	900@1600	126@1600	30.85@1600	EGR EC PTOX OC SCRC NH3OC DFI TC CAC
8068HFC08E	8068	168.0@2200	105.1@2200	35.38@2200	970@1600	135.2@1600	33.1@1600	EGR EC PTOX OC SCRC NH3OC DFI TC CAC
8068HFC08F	8068	168.0@2000	114@2000	34.88@2000	1000@1600	140.1@1600	34.3@1600	EGR EC PTOX OC SCRC NH3OC DFI TC CAC
8068HFC08G	8068	149.0@2400	90.3@2400	33.18@2400	800@1600	111.1@1600	27.2@1600	EGR EC PTOX OC SCRC NH3OC DFI TC CAC
8068HFC08H	8068	149.0@2400	89.7@2400	32.94@2400	800@1600	111@1600	27.17@1600	EGR EC PTOX OC SCRC NH3OC DFI TC CAC
8068HFC08I	8068	149.0@2200	95.8@2200	32.25@2200	873@1600	119.6@1600	29.28@1600	EGR EC PTOX OC SCRC NH3OC DFI TC CAC
8068HFC08J	8068	149.0@2000	101.7@2000	31.12@2000	960@1600	136.1@1600	33.32@1600	EGR EC PTOX OC SCRC NH3OC DFI TC CAC
8068HFC08K	8068	138.0@2400	83.3@2400	30.59@2400	740@1600	103.8@1600	25.41@1600	EGR EC PTOX OC SCRC NH3OC DFI TC CAC
8068HFC08L	8068	138.0@2400	83@2400	30.48@2400	741@1600	102.7@1600	25.14@1600	EGR EC PTOX OC SCRC NH3OC DFI TC CAC
8068HFC08M	8068	138.0@2200	87.8@2200	29.55@2200	809@1600	112.6@1600	27.98@1600	EGR EC PTOX OC SCRC NH3OC DFI TC CAC
8068HFC08N	8068	138.0@2000	95.3@2000	29.16@2000	890@1600	126@1600	30.85@1600	EGR EC PTOX OC SCRC NH3OC DFI TC CAC
8HFC08O	8068	187.0@2000	125.8@2000	38.43@2000	1000@1600	140.3@1600	34.35@1600	EGR EC PTOX OC SCRC NH3OC DFI TC CAC
8HFC08A	8068	224.0@2400	133.2@2400	48.91@2400	1141@1600	163.4@1600	40.0@1600	EGR EC PTOX OC SCRC NH3OC DFI TC CAC
8068HFC08B	8068	224.0@2200	140.8@2200	47.39@2200	1141@1600	151.1@1600	38.99@1600	EGR EC PTOX OC SCRC NH3OC DFI TC CAC
8068HFC08C	8068	205.0@2400	120.7@2400	44.32@2400	1057@1600	150.8@1600	38.87@1600	EGR EC PTOX OC SCRC NH3OC DFI TC CAC
8068HFC08D	8068	205.0@2200	127.8@2200	43.02@2200	1057@1600	150.2@1600	38.77@1600	EGR EC PTOX OC SCRC NH3OC DFI TC CAC
8068HFC08E	8068	187.0@2400	108.4@2400	39.8@2400	1026@1600	145.6@1600	35.64@1600	EGR EC PTOX OC SCRC NH3OC DFI TC CAC
8068HFC08F	8068	187.0@2200	119.2@2200	38.11@2200	1026@1600	145.7@1600	35.87@1600	EGR EC PTOX OC SCRC NH3OC DFI TC CAC
8068HFC08G	8068	188.0@2400	98.3@2400	36.1@2400	1000@1600	141@1600	34.52@1600	EGR EC PTOX OC SCRC NH3OC DFI TC CAC
8068HFC08H	8068	188.0@2200	105.1@2200	35.38@2200	1000@1600	142.4@1600	34.86@1600	EGR EC PTOX OC SCRC NH3OC DFI TC CAC
8068HFC08I	8068	168.0@2200	107.2@2200	36.08@2200	1000@1600	143.7@1600	35.18@1600	EGR EC PTOX OC SCRC NH3OC DFI TC CAC
8068HFG08A	8068	180.0@1800	132.6@1800	36.52@1800				EGR EC PTOX OC SCRC NH3OC DFI TC CAC
8068HFG08B	8068	150.0@1800	111.3@1800	30.65@1800				EGR EC PTOX OC SCRC NH3OC DFI TC CAC
8068HFG08A	8068	241.0@1800	191.4@1800	52.71@1800				EGR EC PTOX OC SCRC NH3OC DFI TC CAC
8068HFG08B	8068	218.0@1800	183.5@1800	45.03@1800				EGR EC PTOX OC SCRC NH3OC DFI TC CAC
8068HL496	8068	154.0@2100	104@2100	33.3@2100	842@1600	122@1600	29.7@1600	EGR EC PTOX OC SCRC NH3OC DFI TC CAC
8068HL499	8068	190.0@2100	122.3@2100	39.3@2100	1000@1600	140.4@1600	34.37@1600	EGR EC PTOX OC SCRC NH3OC DFI TC CAC
8068HL501	8068	190.0@2100	123.9@2100	39.81@2100	1024@1600	145@1600	35.5@1600	EGR EC PTOX OC SCRC NH3OC DFI TC CAC
8068HN059	8068	224.0@2400	131.3@2400	48.21@2400	1141@1600	163.5@1600	40.03@1600	EGR EC PTOX OC SCRC NH3OC DFI TC CAC
8068HPRNT5	8068	238.0@2400	138.5@2400	50.12@2400	1309@1600	187.4@1600	45.88@1600	EGR EC PTOX OC SCRC NH3OC DFI TC CAC
8068HT101	8068	190.0@2100	122.3@2100	39.3@2100	1000@1600	140.4@1600	34.37@1600	EGR EC PTOX OC SCRC NH3OC DFI TC CAC
8068HT107	8068	213.0@1900	154.1@1900	44.8@1900	1141@1600	166.6@1600	40.7@1600	EGR EC PTOX OC SCRC NH3OC DFI TC CAC
8068HTJ58	8068	224.0@2200	143.1@2200	48.17@2200	1170@1600	168.9@1600	40.86@1600	EGR EC PTOX OC SCRC NH3OC DFI TC CAC
8068HTJ59	8068	190.0@2200	120.9@2200	40.7@2200	1025@1600	145@1600	35.5@1600	EGR EC PTOX OC SCRC NH3OC DFI TC CAC
8068RW406A	8068	221.0@2100	145.9@2100	48.88@2100	1171@1600	167.8@1600	41.08@1600	EGR EC PTOX OC SCRC NH3OC DFI TC CAC
8068RW406B	8068	224.0@2100	147@2100	47.23@2100	1245@1600	181.3@1600	44.38@1600	EGR EC PTOX OC SCRC NH3OC DFI TC CAC
8068RW407A	8068	221.0@2100	145.9@2100	48.88@2100	1171@1600	167.8@1600	41.08@1600	EGR EC PTOX OC SCRC NH3OC DFI TC CAC
8068RW407B	8068	224.0@2100	147@2100	47.23@2100	1245@1600	181.3@1600	44.38@1600	EGR EC PTOX OC SCRC NH3OC DFI TC CAC
8068RW410	8068	190.0@2100	123@2100	39.52@2100	1025@1600	142.3@1600	34.84@1600	EGR EC PTOX OC SCRC NH3OC DFI TC CAC
8068RW411	8068	190.0@2100	123@2100	39.52@2100	1025@1600	142.3@1600	34.84@1600	EGR EC PTOX OC SCRC NH3OC DFI TC CAC
8068RW423	8068	190.0@2100	122.3@2100	39.3@2100	1000@1600	140.4@1600	34.37@1600	EGR EC PTOX OC SCRC NH3OC DFI TC CAC

