

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-45-9;

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)
2002	2JDXL06.8012	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			Generator Set	

The engine models and codes are attached.

The following are the exhaust certification standards (STD), 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 (%)		
			HC	NOx	NMHC+NOx	CO	PM	ACCEL	LUG	PEAK
75 ≤ KW < 130	Tier 1	STD	N/A	9.2	N/A	N/A	N/A	20	15	50
130 ≤ KW < 225	Tier 1	STD	1.3	9.2	N/A	11.4	0.54	20	15	50
		CERT	0.3	7.9	--	1.0	0.26	14	6	37

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 27th day of December 2001.


 R. B. Summerfield, Chief
 Mobile Source Operations Division

Engine Model Data Entry Form

WR-4-115

Attachment

Manufacturer: Deere Power Systems Group of Deere and
 Engine category: Nonroad CI
 EPA Engine Family: 2JDXL06.8012
 Mir Family Name: 350HA
 Process Code: New Submission

1. Engine Code	2. Engine Model	3. BHP @ RPM (SAE Gross)	4. Fuel Rate: mm/stroke @ peak HP (for diesels only)	5. Fuel Rate: (lbs/hr) @ peak HP (for diesels only)	6. Torque @ RPM (SEA Gross)	7. Fuel Rate: mm/stroke @ peak torque	8. Fuel Rate: (lbs/hr) @ peak torque	9. Emission Control Device Per SAE J1930
6068HF150A	6068H	219.93 @ 2400	97.00 @ 2400	77.16 @ 2400	589.23 @ 1400	113 @ 1400	52.91 @ 1400	EM TC CAC
6068HH052	6068H	191.77 @ 2200	90.00 @ 2200	66.14 @ 2200	553.10 @ 1400	106.5 @ 1400	50.71 @ 1400	EM TC CAC
6068HF150D/1	6068H	250.77 @ 1800	141.50 @ 1800	85.98 @ 1800				EM
4045HL072	4045H	103.26 @ 2300	72.50 @ 2300	37.48 @ 2300	317.11 @ 1400	92.0 @ 1400	30.86 @ 1400	EM TC CAC
4045HLA70	4045H	103.26 @ 2300	74.30 @ 2300	37.48 @ 2300	313.42 @ 1500	90.7 @ 1500	28.66 @ 1500	EM TC CAC
4045HZ050	4045H	115.33 @ 2200	85.90 @ 2200	41.89 @ 2200	334.07 @ 1400	100.5 @ 1400	30.86 @ 1400	EM TC CAC
6068HF150B	6068H	210.54 @ 2400	92.00 @ 2400	72.75 @ 2400	570.06 @ 1400	108 @ 1400	50.71 @ 1400	EM TC CAC
4045HF150D	4045H	148.85 @ 1800	133.50 @ 1800	52.91 @ 1800				EM TC CAC
6068HF150F	6068H	281.61 @ 1800	160.00 @ 1800	97.00 @ 1800				EM
4045HL070	4045H	112.65 @ 2300	77.50 @ 2300	39.68 @ 2300	342.18 @ 1500	99.3 @ 1500	33.07 @ 1500	EM TC CAC
4045HLA73	4045H	123.37 @ 2300	86.30 @ 2300	44.09 @ 2300	342.18 @ 1500	99.4 @ 1500	33.07 @ 1500	EM TC CAC
6068HLA71	6068H	139.47 @ 2100	72.10 @ 2100	48.50 @ 2100	464.60 @ 1400	95.0 @ 1400	41.89 @ 1400	EM TC CAC
6068HLA73	6068H	166.29 @ 2100	83.00 @ 2100	57.32 @ 2100	516.22 @ 1500	99.3 @ 1500	48.50 @ 1500	EM TC CAC
4045HF150B	4045H	127.40 @ 1800	107.00 @ 1800	44.09 @ 1800				EM TC CAC
4045HF150C	4045H	164.95 @ 1800	140.00 @ 1800	55.11 @ 1800				EM
4045HL071	4045H	115.33 @ 2300	78.40 @ 2300	39.68 @ 2300	347.35 @ 1500	100.0 @ 1500	33.07 @ 1500	EM TC CAC
4045HL073	4045H	100.58 @ 2300	70.50 @ 2300	35.27 @ 2300	305.31 @ 1400	90.5 @ 1400	28.66 @ 1400	EM TC CAC
4045HLA71	4045H	100.58 @ 2300	73.00 @ 2300	37.48 @ 2300	305.31 @ 1500	90.0 @ 1500	28.66 @ 1500	EM TC CAC
4045HF150A	4045H	139.47 @ 2400	92.00 @ 2400	48.50 @ 2400	365.78 @ 1400	106 @ 1400	33.07 @ 1400	EM TC CAC
6068HF150E	6068H	222.61 @ 1800	130.50 @ 1800	77.16 @ 1800				EM TC CAC
6068HRT51	6068H	172.99 @ 2200	84.00 @ 2200	59.52 @ 2200	557.52 @ 1500	111.4 @ 1500	54.23 @ 1500	EM TC
4045HLA72	4045H	112.65 @ 2300	79.00 @ 2300	39.68 @ 2300	342.18 @ 1500	99.7 @ 1500	33.07 @ 1500	EM TC CAC
6068HLA70	6068H	130.08 @ 2300	62.30 @ 2300	46.30 @ 2300	393.07 @ 1500	76.2 @ 1500	37.48 @ 1500	EM TC CAC
6068HLA72	6068H	155.56 @ 2100	77.80 @ 2100	52.91 @ 2100	516.22 @ 1500	99.0 @ 1500	48.50 @ 1500	EM TC CAC
6068HF150C	6068H	191.77 @ 2200	88.90 @ 2200	66.14 @ 2200	553.10 @ 1300	106 @ 1300	44.09 @ 1300	EM TC CAC

ESU, ppt

Engine Model Summary Form

Running Change
 ED# U-1-004-0115

Manufacturer: Deere Power Systems Group of Deere and
 Engine category: Nonroad CI
 EPA Engine Family: 2JDXL06.8012
 Mfr Family Name: 350HA
 Process Code: New Submission

Attachment

1. Engine Code	2. Engine Model	3. BHP @ RPM (SAE Gross)	4. Fuel Rate: mm ³ /stroke @ peak HP (for diesel only)	5. Fuel Rate: (lbs/hr) @ peak HP (for diesels only)	6. Torque @ RPM (SEA Gross)	7. Fuel Rate: mm ³ /stroke @ peak torque	8. Fuel Rate: (lbs/hr) @ peak torque	9. Emission Control Device Per SAE J1930
6068HRW01A	6068H	130.08 @ 2300	62.30 @ 2300	46.30 @ 2300	393.07 @ 1500	76.2 @ 1500	37.48 @ 1500	EM TC CAC EM , DD
6068HRW01B	6068H	139.47 @ 2100	72.10 @ 2100	48.50 @ 2100	464.60 @ 1400	95 @ 1400	41.89 @ 1400	EM TC CAC
6068HRW01C	6068H	155.56 @ 2100	77.80 @ 2100	52.91 @ 2100	516.22 @ 1500	99 @ 1500	48.50 @ 1500	EM TC CAC

