



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)
2010	AJDXL06.8105	4.5, 6.8	Diesel	8000
SPECIAL FEATURES & EMISSION CONTROL SYSTEMS			TYPICAL EQUIPMENT APPLICATION	
Direct Diesel Injection, Turbo Charger, Charge Air Cooler, Electronic Control Module, Smoke Puff Limiter			Loaders, Tractor, 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 (%)		
			HC	NOx	NMHC+NOx	CO	PM	ACCEL	LUG	PEAK
75 ≤ kW < 130	Tier 3	STD	N/A	N/A	4.0	5.0	0.30	20	15	50
		CERT	--	--	3.4	1.5	0.25	13	3	25

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 28 day of December 2009.

Annette Hebert, Chief
Mobile Source Operations Division

date: 12/10/09

U-R-004-0383

Engine Model Summary Form

Manufacturer: John Deere Power Systems
 Engine category: Nonroad CI
 EPA Engine Family: AJDXL06.8105
 Mfr Family Name: 350HAC
 Process Code: New Submission

Attachment 1 of 1

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
4045HF286	4045H	115.33@2400	84.80@2400	45.77@2400	317.11@1800	101.4@1800	36.45@1800	EM EC SPL
4045HF285A	4045H	146.18@2400	111.50@2400	60.17@2400	413.85@1800	131.8@1800	47.40@1800	EM EC SPL
6068HDW70	6068H	152.88@2350	76.10@2350	60.37@2350	511.07@1800	107.8@1800	58.10@1800	EM EC SPL
4045HFS83	4045H	158.25@1800	144.10@1800	58.32@1800	N/A	N/A	N/A	EM EC SPL
4045HFS82	4045H	128.86@1800	115.80@1800	46.90@1800	N/A	N/A	N/A	EM EC SPL
4045HDW53	4045H	128.74@2200	100.90@2200	49.94@2200	389.39@1800	122.6@1800	44.21@1800	EM EC SPL
6068HRT86	6068H	151.54@2200	82.00@2200	58.85@2200	467.58@1500	105.7@1500	51.59@1500	EM EC SPL
6068HRT85B	6068H	138.13@2200	74.80@2200	53.58@2200	426.26@1500	94.9@1500	46.30@1500	EM EC SPL
6068HRT85A	6068H	127.40@2200	70.50@2200	50.27@2200	393.07@1500	82.2@1500	44.98@1500	EM EC SPL
4045HRT83A	4045H	131.43@2200	107.30@2200	53.14@2200	383.49@1850	118.6@1850	43.88@1850	EM EC SPL
4045HRT83B	4045H	120.70@2200	100.00@2200	48.39@2200	376.11@1850	118@1850	43.66@1850	EM EC SPL
4045HRT83C	4045H	111.31@2200	92.60@2200	45.84@2200	345.88@1850	107.7@1850	39.91@1850	EM EC SPL
4045HRT83D	4045H	119.36@2200	97.50@2200	48.06@2200	373.90@1850	117.4@1850	43.44@1850	EM EC SPL
4045HRT83E	4045H	108.63@2200	89.90@2200	44.54@2200	351.04@1850	110.7@1850	41.01@1850	EM EC SPL
4045HE050	4045H	124.72@2400	91.80@2400	49.56@2400	354.72@1800	111.9@1800	40.33@1800	EM EC SPL
4045HT065	4045H	127.40@2200	89.50@2200	49.01@2200	304.58@1800	131.1@1800	45.15@1800	EM EC SPL
6068HN054	6068H	173.05@2400	67.70@2400	67.91@2400	506.84@1500	85.5@1500	52.25@1500	EM EC SPL
4045HL288B	4045H	130.08@2300	98.90@2300	49.61@2300	387.17@1800	124.0@1800	43.44@1800	EM EC SPL
4045HL288A	4045H	130.08@2300	98.90@2300	49.61@2300	387.17@1800	124.0@1800	43.44@1800	EM EC SPL
4045HRW51	4045H	130.08@2300	98.90@2300	49.61@2300	387.17@1800	124.0@1800	43.44@1800	EM EC SPL

DDJ,TC,CA

