

DEERE POWER SYSTEMS GROUP OF DEERE & COMPANY

EXECUTIVE ORDER U-R-004-0139 New Off-Road Compression-Ignition Engines

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)	
2003	3JDXL06.8053	6.8	Diesel	8000	
SPECIAL FEATURES & EMISSION CONTROL SYSTEMS			TYPICAL EQUIPMENT APPLICATION		
Direct Diesel Injection, Smoke Puff Limiter, Turbocharger, Charge Air Cooler			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		EXHAUST (g/kw-hr)			OPACITY (%)					
CLASS	STANDARD CATEGORY		HC	NOx	NMHC+NOx	co	РМ	ACCEL	LUG	PEAK
130 ≤ kW < 225	Tier 2	STD	N/A	N/A	6.6	3.5	0.20	20	15	50
		FEL	-	-	8.6	-	0.28	-	_	_
		CERT	-	-	7.6	0.8	0.23	10	6	20

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 ______ day of January 2003.

Raphael Susnowith
Allen Lyons, Chief

Mobile Source Operations Division

Engine Model Sum: `ry Form

Manufacturer:

Attachment 1061

Engine category: Nonroad CI

EPA Engine Family: 3JDXL06.8053 : *350HJ

Mfr Family Name:

Process Code: **New Submission**

W. R-004-0139

1. Engine Code 2. Engine Model (SAE Gross) (for diesel only) (tor diesels only) (SEA Gross) (for diesels only) (SE3.33@1400 114@1400 52.91@1400 EM TC CAC 14.66.6068HF250A 6068H 234.68@2400 110.00@2400 88.18@2400 680.68@1400 130@1400 59.52@1400 EM TC CAC 14.66.6068H 14.66.66.66.66.66.66.66.66.66.66.66.66.66	:				
2.Engine Model (SAE Gross) (for diesel only) (bs/lh) @ peak HP (lbs/lh) @ peak HP (seels only) (SEA Gross) (for diesel only) (for diesels only) (SEA Gross) (torque @ RPM mm/stroke @ peak torque Device Per SAE J1930 6068H 187.74@2200 90.00@2200 66.14@2200 583.33@1400 114@1400 52.91@1400 EM TC CAC 3/4/68@2400 110.00@2400 88.18@2400 680.68@1400 130@1400 59.52@1400 EM TC CAC 3/4/68@2400 680.68@1400 680.68@1400 59.52@1400 EM TC CAC 3/4/68@2400 680.68@1400 680.68@1400 59.52@1400 EM TC CAC 3/4/68@2400 680.68@1400 680.68@		6068HF250A	6068HT056	1.Engine Code	
3.BHP@RPM mm/stroke @ peak HP (lbs/lh) @ peak HP (sAE Gross) (for diesel only) (for diesels only) (SEA Gross) (for diesel only) (for diesels only) (SEA Gross) (for diesels only) (SEA Gross) (SEA Gross) (Ibs/lh) @ peak HP (bs/lh) @ peak torque (bs/lh) @ peak torque Device Per SAE J1930 (B7.74@2200 90.00@2200 66.14@2200 583.33@1400 114@1400 52.91@1400 EM TC CAC \$ per SAE J1930 (B7.74@2200 90.00@2200 88.18@2400 680.68@1400 130@1400 59.52@1400 EM TC CAC \$ per SAE J1930 (B7.74@2200 90.00@2400 88.18@2400 680.68@1400 130@1400 59.52@1400 EM TC CAC \$ per SAE J1930 (B7.74@2200 90.00@2400 BR.18@2400 680.68@1400 130@1400 59.52@1400 EM TC CAC \$ per SAE J1930 (B7.74@2200 90.00@2400 BR.18@2400 680.68@1400 130@1400 59.52@1400 EM TC CAC \$ per SAE J1930 (B7.74@2200 90.00@2400 BR.18@2400 680.68@1400 130@1400 59.52@1400 EM TC CAC \$ per SAE J1930 (B7.74@2200 90.00@2400 BR.18@2400 680.68@1400 130@1400 FR.74@22@1400 EM TC CAC \$ per SAE J1930 (B7.74@2200 90.00@2400 BR.18@2400		H8909	H8909	2.Engine Model	
#.Fuel Hate: 5.Fuel Hate: 7.Fuel Rate: 7.Fu		234.68@2400	187.74@2200	3.BHP@RPM (SAE Gross)	
5. Fuel Rate: 7. Fuel Rate: 9. Emission Control (bs/ln) @ peak HP 6. Torque @ RPM mm/stroke@peak 8. Fuel Rate: 9. Emission Control (bs/ln) @ peak torque Device Per SAE J1930 66.14 @ 2200 583.33 @ 1400 114 @ 1400 52.91 @ 1400 EM TC CAC よみよ 88.18 @ 2400 680.68 @ 1400 130 @ 1400 59.52 @ 1400 EM TC CAC よみよ		110.00@2400	90.00@2200	mm/stroke @ peak HP (for diesel only)	4 7 7 7
7.Fuel Rate: 7.Fuel Rate: 9.Emission Control (SEA Gross) torque (tbs/hr) @ peak torque Device Per SAE J1930 583.33@1400 114@1400 52.91@7400 EM TC CAC よみよ 680.68@1400 130@1400 59.52@1400 EM TC CAC よみよ		88.18@2400	66.14@2200	(lbs/hr) @ peak HP (for diesels only)	- ID LUID
7.Fuel Rate: 7.Fuel Rate: 9.Emission Control mm/stroke@peak 8.Fuel Rate: 9.Emission Control torque (lbs/hr)@peak torque Device Per SAE J1930 1114@1400 52.91@1400 EM TC CAC 504 130@1400 59.52@1400 EM TC CAC		680.68@1400	583.33@1400		
8.Fuel Rate: 9.Emission Control (lbs/hr)@peak torque Device Per SAE J1930 52.91@1400 EM TC CAC VPL 59.52@1400 EM TC CAC	The second section of the second section section sections and the second section sections are sections as the second section s	130@1400	114@1400		7 1 1 1 1 1 1
9.Emission Controt Device Per SAE J1930 EM TO CAC SPA EM TO CAC		59.52@1400	52.91@1400	8.Fuel Rate: (lbs/hr)@peak torque	
		EM TC CAC	EM TO CAC SAL	9.Emission Control Device Per SAE J1930	