

DEERE POWER SYSTEMS GROUP OF DEERE & COMPANY

EXECUTIVE ORDER U-R-004-0150 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	3JDXL08.1058	8.1	Diesel	8000					
SPECIAL	FEATURES & EMISSION	CONTROL SYSTEMS	TYPICAL EQUIPMENT APPLICATION						
Direct D Turbocha	iesel Injection, Electron rger, Charge Air Cooler	ic Control Module, , Smoke Puff Limiter	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	EMISSION STANDARD			i	EXHAUST (g/kw-l		OPACITY (%)				
CLASS	CATEGORY		HC	NOx N/A	NMHC+NOx	3.5	PM	ACCEL	LUG 15	PEAK 50	
130 ≤ kW < 225	Tier 2	STD	N/A		6.6		0.20	20			
		FEL	-	-	9.8	-	0.45	-	-	-	
		CERT	-	-	9.3	1.7	0.21	15	6	24	

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.

fuAllen Lyons, Chief

Mobile Source Operations Division

Raphael Susnairty

Attachment 1 of 1

Engine Model Sur nary Form

Manufacturer: Deere Power Systems Group of Deere and

Engine category: Nonroad CI

EPA Engine Famiy 3JDXL08.1058

Mfr Family Name: 450AB

Process Code: New Submission

UR-004-0150

5.Fuel Rate: (Ibdn') @ peak HP 6.florque @ RPM mm/stroke@peak (Ibs/hr) @ peak HP 6.florque @ RPM mm/stroke@peak (Ibs/hr)@peak torque 97.000@2200 918.88@1400 191@1400 74.96@1400 72.75@2200 682.89@1300 139@1300 63.93@1300 81.57@2200 759.59@1400 143.7@1400 68.34@1400				The first day of the control of the					: :	**************************************	المساع شاكا المكتب		608	608	6081	1.Eng
3.BHP@RPM mm/stoka @ peak Hy (bs/hr) @ peak HP (safe) @	ender eine der eine der eine eine eine eine eine eine eine ei										The second secon		IATJ03	IATJ02	AF001A	ine Code
A-Fuel Rate: S-Fuel Rate: S-Fuel Rate: T-Fuel Rate: mm/stroke @ peak HP (for diesels only) (for diesels only) (SEA Gross) torque 134.00@2200 97.00@2200 918.88@1400 191@1400 100.00@2200 72.75@2200 682.89@1300 139@1300 139@1300 11111.00@22200 81.57@22200 759.59@1400 743.7@1400 743.7@1400 140.00@2200 140.	to the control of the second o				A Company of the Comp								6081A	6081A	6081A	ź.Engine Model
5. Fuel Rate: 7. Fuel Rate: (lbs/hr) @ peak HP (SEA Gross) mm/stroke@peak (for diesels only) (SEA Gross) torque 97.00@2200 918.88@1400 191@1400 72.75@2200 682.89@1300 139@1300 81.57@2200 759.59@1400 143.7@1400					A STATE OF THE STA		A STATE OF THE STA			A Comment of the Comm			225.29@2200	199.81@2200	274.91@2200	
7. Fuel Rate: 6. Torque @ RPM							A STATE OF THE PARTY OF THE PAR			And the second s			111,00@2200	100.00@2200	134.00@2200	4.Fuel Rate: mm/stroke @ peak HP (for diesel only)
7. Fuel Rate: A mm/stroke@peak torque 0 191@1400 0 139@1300 0 143:7@1400	(1) (1) (1) (1) (1) (1) (1) (1) (1) (1)			and the second s			The state of the s						81.57@2200	72.75@2200	97.00@2200	5.Fuel Rate: (lbs/hr) @ peak HP (for diesels only)
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8. Fuel Rate: 9. Emission Control (lbs/hr) @ peak torque Device Per SAE J193) 74.96 @ 1400 TC CAC EM 68.34 @ 1400 TC CAC EM					100 Company of the Co		Commence of the conference of						143.7@1400	139@1300		
9. Emission Control Device Per SAE J193 TC CAC EM TC CAC EM						MAN TO A CONTROL OF THE PARTY O	where controls is decomposed to their controls of their						68.34@1400	63.93@1300	74.96@1400	8.Fuel Rate: (lbs/hr)@peak torque
							and a make of the file from the formal state of the second						TC CAC EM	TC CAC EM	TC CAC EM	9.Emission Control Device Per SAE J1930