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State of California AIR RESOURCES BOARD

EXECUTIVE ORDER U-R-4-73 Relating to Certification of New Heavy-Duty Off-Road Equipment Engines

DEERE POWER SYSTEMS GROUP OF DEERE & COMPANY

Pursuant to the authority vested in the Air Resources Board at Sections 43000.5, 43013, and 43018 of the Health and Safety Code; and

Pursuant to the authority vested in the undersigned at Sections 39515 and 39516 of the Health and Safety Code and Executive Order G-45-9; and

IT IS ORDERED AND RESOLVED: That the following diesel engines and exhaust emission control systems produced by the manufacturer are certified as described below for use in heavy-duty off-road equipment:

Model Year: 2000

Typical Equipment Usage: Generator Set

Engine Power Ratings Range: 175 - 750 horsepower, inclusive

Fuel Type: Diesel

Engine Family	Displa	cement	Exhaust Emission Control
	<u>Liters</u>	<u>Cubic Inches</u>	Systems and Special Features
YJDXL06.8012 (350HA)	6.8/4.5	415/274	Turbocharger Charge Air Cooler

The engine models and codes are listed on attachments. Production engines shall be in all material respects the same as those for which certification is granted.

The exhaust emission certification standards and certification values in grams per brake horsepower-hour (g/bhp-h) for total hydrocarbons (THC), carbon monoxide (CO), nitrogen oxides (NOx), and particulate matter (PM), and the opacity-of-smoke certification standards and certification values in percent (%) during acceleration (Accel), lugging (Lug), and the peak value from either mode (Peak) for this engine family are as follows (Title 13, California Code of Regulations, Section 2423):

<u>Ext</u>	naust Em	issions (g/bhp-h)		<u>Smo</u>	ke Opacity	<u>/ (%)</u>
	THC	CO	<u>NOx</u>	<u>PM</u>	Accel	<u>Lug</u>	<u>Peak</u>
Standard	1.0	8.5	6.9	0.4	20	15	50
Certification	0.2	0.7	5.9	0.2	14	6	37

BE IT FURTHER RESOLVED: That the engine models listed on the attachments with engine power ratings less than 175 horsepower are not covered by this Executive Order.

BE IT FURTHER RESOLVED: That the listed engine models comply with "Exhaust Emission Standards and Test Procedures—Heavy-Duty Off-Road Diesel-Cycle Engines" (Title 13, California Code of Regulations, Section 2423) for the aforementioned model-year.

BE IT FURTHER RESOLVED: That the listed engine models also comply with "Emission Control Labels—1996 and Later Heavy-Duty Off-Road Diesel-Cycle Engines" (Title 13, California Code of Regulations, Section 2424) for the aforementioned modelyear.

BE IT FURTHER RESOLVED: That for the listed engine models, the manufacturer has submitted the materials to demonstrate certification compliance with the Board's emission control system warranty provisions (Title 13, California Code of Regulations, Sections 2425 et seq.).

Engines certified under this Executive Order must conform to all applicable California emission regulations.

Executed at El Monte, California this

day of January 2000.

R. B. Summerfield, Chief

Mobile Source Operations Division

Engine Model Su mary Form

Deere Power Systems Group of Deere & Company Manufacturer:

Engine category: Nonroad Cl

EPA Engine Family: YJDXL06.8012

Mfr Family Name: 350HA

New Submission Process Code:

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9.Emission Control Device Per SAE J1930	EM, TC, CAC	EM, TC, CAC	EM, TC, CAC	EM, TC, CAC	EM, TC, CAC	EM, TC, CAC	EM, TC, CAC	EM, TC, CAC	manufacture of the second configuration of the second control of t	 :															
8.Fuel Rate: (lbs/hr)@peak torque	52@1400	33@1400	51@1400	50@1400	51@1400	45@1300	N/A	51@1400			- 1			and the second s		A					me construction of the contract of the contrac	THE RESERVE OF THE PERSON NAMED IN COLUMN TWO IS NOT THE OWNER.			
7.Fuel Hate: mm/stroke@peak torque	113@1400	106@1400	106.5@1400	108@1400	106.5@1400	106@1300	N/A	106.5@1400				×	The state of the s												
6.Torque @ RPM (SEA Gross)	589@1400	366@1400	553@1400	570@1400	553@1400	553@1300	ΝΑ	553@1400		AND THE REAL PROPERTY OF THE P		y		to a commonly mean commence of the second com							and printed management of the control of the contro				
5.Fuel Rate: (lbs/hr) @ peak HP (for diesels only)	77@2400	49@2400	64@2200	73@2400	66@2200	66@2200	43@1800	66@2200										The second secon							
4.Fuel Rate: mm/stroke @ peak HP (for diesel only)	97@2400	92@2400	88@2200	92@2400	90@2200	90@2200	107@1800	90@2200						CONTRACTOR		The second secon			: : : : : : : : : : : : : : : : : : : :		100000000000000000000000000000000000000		The second secon		
3.BHP@RPM (SAE Gross)	220@2400	140@2400	188@2200	210@2400	192@2200	192@2200	127@1800	192@2200										The contradict of the contradiction of the contradi							
2.Engine Model	6068H	4045H	ROGRH	H8909	Hago	Hayon	4045H	H8909			:			manufacture of the state of the				THE RESIDENCE OF THE PROPERTY					The same of the same state of		
1 Fnaine Code	6068HE150A	4045HE150A	FORBHHOSO	SOCIETION SOCIET	2000 II 1300	6066FIT1600	6066HF150C	6068HH052							:										