



DEERE POWER SYSTEMS GROUP OF DEERE & COMPANY

EXECUTIVE ORDER A-108-0028
New On-Road Heavy-Duty Engines

Pursuant to the authority vested in the Air Resources Board by Health and Safety Code (HSC) Division 26, Part 5, Chapter 2; and pursuant to the authority vested in the undersigned by HSC Sections 39515 and 39516 and Executive Order G-45-9;

IT IS ORDERED AND RESOLVED: That the following engine and emission control systems produced by the manufacturer are certified as described below for use in on-road motor vehicles with a manufacturer's gross vehicle weight rating (GVWR) over 14,000 pounds. Production engines shall be in all material respects the same as those for which certification is granted.

MODEL YEAR	ENGINE FAMILY	ENGINE SIZE (liter)	FUEL TYPE			STANDARDS & TEST PROCEDURE	INTENDED SERVICE CLASS	
2002	2JDXH08.1004	8.1	Con	pressed Natural Gas		Diesel	Medium Heavy-Duty	
9	SPECIAL FE			ENGINE MODELS / CODES (rated power in horsepower, hp)				
	TC, CAC, EC	M, TBI, O2S						
fuel injection /indirect dies EGR=exhaus SP=smoke pt	ONS: OC=oxidizing catalyst talyst O2S=oxygen sensor MFI=multiport fuel injectic of injection TC/SC=turbo/s gas recirculation AIR=sec If limiter ECM/PCM-engin odification 2 (prefix)=para	 HO2S=heated O2S SFi=sequentialNuper charger	B TBI=throttle body IFI DDI/IDI=direct :=charge air cooler PAIR=pulsed AIR of module		6081H / 6 6081H / 6 6081H / 6	081HFN01C 081HFN01D 081HFN03C 081HFN03D all models)		

The following are the exhaust emission standards, or family emission limit(s) (FEL) as applicable, and certification levels for this engine family for hydrocarbons (HC) or non-methane hydrocarbons (NMHC), oxides of nitrogen (NOx), or NMHC+NOx, carbon monoxide (CO), particulate matter (PM), and formaldehyde (HCHO) in grams per brake horsepower-hour (g/bhp-hr) (Title 13, California Code of Regulations, (13 CCR) Section 1956.1 (urban bus) or 1956.8 (other than urban bus)): (The emission standards and certification levels for default operations permitted under 13 CCR Section 1956.1 or 1956.8 are in parentheses.)

* = not applicable [g/bhp-hr]	HC	NMHC 1.2	NOx 2.5	NMHC+NOx *	CO 15.5	PM 0,10	нсно
(DIRECT) STANDARD							
CORPORATE AVERAGE STANDARD	•	1		•	•	•	
FAMILY EMISSION LIMIT (FEL)	\sim \sim		*	•	*	*	
CERTIFICATION LEVEL		0.5	1.6	•	1.8	0.02	

BE IT FURTHER RESOLVED: That certification to the FEL(s) listed above, as applicable, is subject to the following terms, limitations and conditions. The FEL(s) is the emission level declared by the manufacturer and serves in lieu of an emission standard for certification purposes in any averaging, banking, or trading (ABT) programs. It will be used for determining compliance of any engine in this family and compliance with such ABT programs.

BE IT FURTHER RESOLVED: That at the manufacturer's request, the listed engine models have been certified to the optional lower NOx emission standard listed above pursuant to 13 CCR Section 1956.1 or 1956.8.

BE IT FURTHER RESOLVED: That for the listed engine models, the manufacturer has submitted the materials to demonstrate certification compliance with 13 CCR Sections 1965 (emission control labeling), and 2035 et seq. (emission control system warranty).

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

The Bureau of Automotive Repair will be notified by copy of this Executive Order.

Executed at El Monte, California on this

_ _ day of December 2001.

R. B. Summerfield, Chief Mobile Source Operations Division