EXECUTIVE ORDER U-R-018-0026 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-45-9;

IT IS ORDERED AND RESOLVED: That the following compression-ignition engine and emission control system 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			
2001	1LHAL17.2ARA	12.9 and 17.2	Diesel	(hours) 8000			
SPECIAL	FEATURES & EMISSION	CONTROL SYSTEMS	TYPICAL EQUIPMENT A				
Direct Diesel Injection, Turbocharger, Charge Air Cooler, Smoke Puff Limiter			Crane, Loader, Dozer, Compressor				
ENGINE MODELS (rated power in kilowatts, kw)	D9408TI-E (400 KW),	D9408TI (327 KW), D9406T	(327 KW), D9408TI-E (327 KW	/), D9406TI-E (327KW)			

The following are the exhaust certification standards (STD) 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):

'	l HC	1 110	1			EXHAUST (g/kw-hr) OPACITY (%)						
		NOx	NMHC+NOx	co	PM	ACCEL	LUG	PEAK				
STD	N/A	N/A	6.4	3.5	0.20	20						
CERT			4.3	0.5			0	50 30				
	CERT	CERT	CERT	CEDY	CERT	CERT 0.20	CERT 10	CERT - 42 0.20 20 15				

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 June 2001.

R. B. Summerfield, Chief

Mobile Source Operations Division