EXECUTIVE ORDER U-R-028-0442 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) 5000	
2009	9YDXL2.00J4T	1.995	Diesel		
	FEATURES & EMISSION	,	TYPICAL EQUIPMENT APPLICATION		
Direct Diesel Injection, Turbocharger			Generator Set		

The engine models and codes are attached.

The following are the exhaust certification standards (STD) and certification levels (CERT) for hydrocarbons (HC), oxides of nitrogen (NOx), or non-methane hydrocarbons 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	EMISSION		EXHAUST (g/kW-hr)				OPACITY (%)			
POWER CLASS	STANDARD CATEGORY		нс	NOx	NMHC+NOx	co	PM	ACCEL	LUG	PEAK
19 ≤ kW < 37	Tier 4 Interim	STD	N/A	N/A	7.5	5.5	0.30	N/A	N/A	N/A
		CERT			6.7	1.8	0.24			

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 December 2008.

Annette Hebert, Chief

Mobile Source Operations Division

Engine Model Summary Template

ENT	ED# U-K-028, 0446	B.Fuel Rate: 9.Emission Control s/hr)@peak torqueDevice Per SAE 11930	PH I I I	The state of the s	EM DI
ATTACHMENT	ED# U-	a)	N/A	N/A	A/N ·
	7.Fuel Rate:	mm/stroke@peak torque	A/N	NA NA	N/A
		IP 6.Torque @ RPM (SEA Gross)	N/A	NA	N/A
	5.Fuel Rate:	(lbs/hr) @ peak HP (for diesels only)	14.0	14.0	14.0
	4.Fuel Rate:	mm/stroke @ peak HP (lbs/hr) @ peak HP 6.Torque @ RPM mm/stroke@peak (for diesel only) (SEA Gross) torque	35.4	35.4	35.4
		3.BHP@RPM (SAE Gross)	37.5/1800	37.5/1800	37.5/1800
		3.BHP@RPM 3.BHP@RPM 3.BHP@RPM (SAE Gross)	3MTGP	3MTGA	3MTGAK
		1.Engine Code	NA	N/A	N/A
		Engine Family	9YDXL2.00J4T	9YDXL2.00J4T	9YDXL2.00J4T