EXECUTIVE ORDER U-R-028-0392 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)		
2008	8YDXL1.50K3T	1.496	Diesel	5000		
SPECIAL FEATURES & EMISSION CONTROL SYSTEMS			TYPICAL EQUIPMENT APPLICATION			
Direct Diesel Injection, Turbocharger			Crane, Loader, Tractor, Excavator Dozer, Pump, Compressor			

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 STANDARD CATEGORY		EXHAUST (g/kW-hr)			OPACITY (%)				
POWER			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	20	15	50
		CERT			6.3	1.7	0.24	5	2	7

**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 November 2007.

Annette Hebert, Chief

Mobile Source Operations Division

## Engine Model Summary Template

ATAHMENT 604V-R-028-392

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	8.Fuel Kate: 9.Emission Control (lbs/hr)@peak torqueDevice Per SAE J1930	EM DI TC	EM DI	EM DI
		12.5	11.9	11.6
7.Fuel Rate:	mm/stroke@peak torque	39.9	37.9	39.0
	6.Torque @ RPM (SEA Gross)	92.5/1900	89.5/1900	90.2/1800
5. Fuel Rate:	IP (lbs/hr) @ peak HP 6.Torque @ RP (for diesels only) (SEA Gross)	16.7	16.4	15.5
4.Fuel Rate:	mm/stroke @ peak HP(lbs/hr) @ peak HP 6 Torque @ RPM (for diesel only) (for diesels only) (SEA Gross)	36.1	35.5	36.1
	3.BHP@RPM (SAE Gross)	41.2/2800	40.6/2800	37.4/2600
	3.BHP@RPM 3.BHP@RPM Fingine Family 1.Engine Code 2.Engine Model (SAE Gross)	ЗЈТКР	ЗЈТКА	3JTMA
	1.Engine Code	N/A	N/A	NA
	<b>Engine Family</b>	8YJXL1 50K3T	8YDXL1.50K3T	8YDXL1 50K3T