VM Motori S.p.A.

EXECUTIVE ORDER U-R-047-0027-1 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	8V5XL03.0S4S	3.0	Diesel	8000	
SPECIAL FEATURES & EMISSION CONTROL SYSTEMS		TYPICAL EQUIPMENT APPLICATION			
Direct Diesel Injection, Smoke Puff Limiter, Turbocharger			Loader, Tractor, Dozer, Pump, and Other Industrial Equipment		

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)					C	PACITY (%)
POWER CLASS	STANDARD CATEGORY		нс	NOx	NMHC+NOx	со	PM	ACCEL	LUG	PEAK
37 ≤ kW < 75	Tier 3	STD	N/A	N/A	4.7	5.0	0.40	20	15	50
		CERT			4.7	1.4	0.36	5	6	14

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

Annette Hebert, Chief

Mobile Source Operations Division

ATTACHMENIT EO#U-R-047-0037-,

	mm/stroke @ peak HP (lbs/hr) @ peak HP 6.Torque @ RPM mm/stroke@peak 8.Fuel Rate: 9.Emission Control (for diesels only) (SEA Gross) torque (lbs/hr)@peak torqueDevice Per SAE J1930	0	32.8 184.4@ 1800 62.8 22.4 SPL, TC, DI	35.7 184.4@ 1800 68.9 27.6 SPL, TC, DI	32.9 184.4@1800 68.9 27.6 SPL, TC, DI
4.Fuel Rate:	mm/stroke @ peak HP (for diesel only)	ı	64.2	61.8	64.2
	3.BHP@RPM (SAE Gross)	5	72@ 2300	69@ 2600	D754SE3 4.66.4@ 2300
	2.Engine Model	D754TE3	D754TE3	D754SE3	D754SE3
	ngine Family 1 Engine Code 2. Engine Model	83C/8	83C/9	92C/3	PAGES ACTION DEPOS CONTRACTOR DEPOS CONT
	ngine Family	5XL03.0S4S	5X1.03.054S	5XL03.0545	5XL03.0S4S