HINO MOTORS, LTD.

EXECUTIVE ORDER U-R-020-0033 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)
2007	7HMXL07.7JTM	7.7	Diesel	8000
	FEATURES & EMISSION (TYPICAL EQUIPMENT APPLIC	ATION
Direct Dies Exhaust	sel Injection, Turbocharge Gas Recirculation, Electro	er, Charge Air Cooler, onic Control Module	Crane, Excavator	

The engine models and codes are attached.

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):

RATED	EMISSION			E	XHAUST (g/kW-	ır)		OPACITY (%)		6)
POWER CLASS	STANDARD CATEGORY		HC	NOx	NMHC+NOx	CO	PM	ACCEL	LUG	PEAK
130 ≤ kW < 225	Tier 3	STD	N/A	N/A	4.0	3.5	0.20	20	15	50
		CERT			3.4	0.5	0.08	2	4	4

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 2006.

Annette Hebert, Chief

Mobile Source Operations Division

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Engine Model Summary Template

ATTACAMENT	
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Engine Family	1.Engine Code	Engine Family 1.Engine Code 2.Engine Model	3.BHP@RPM (SAE Gross)	4.Fuel Rate: 5.Fuel Rate: mm/stroke @ peak HP (lbs/hr) @ peak HP (for diesel only) (for diesels only)	5.Fuel Rate: (lbs/hr) @ peak HP 6.Torque @ RP (for diesels only) (SEA Gross)	6.Torque @ RPM (SEA Gross)	7.Fuel Rate: mm/stroke@peak forque	8.Fuel Rate: (lbs/hr)@peak torqu	8.Fuel Rate: 9.Emission Control (lbs/hr)@peak torqueDevice Per SAE J193
	1		•	•	:				
7HMXL07.7JTM	AA-J05E-TB	7HMXL07.7JTM AA-J05E-TB AA-J05E-TB 183@2100	183@2100	143A}4.5	65.1Å}2.1	482@1600	145A}4.5	49.6Å}1.6	49.6A}1.6 DDI, EM, EG, EGRITA
7HMXL07.7JTM AA-J08E-TM AA-J08E-TM	AA-J08E-TM	AA-J08E-TM	213@2000	110Å}4.0	71.6Å}2.6	588@1600	113Å}4.0	57.3Å}2.1	EM,EQLEGR
7HMXL07.7JTM		AB-J08E-TM AB-J08E-TM	280@2100	144Å}4.5	98.4Å}3.1	736@1600	146Å}4.5	75.0Å}2.3	75.0Å}2.3 \$\begin{array}{c} \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \