

KOMATSU LIMITED

EXECUTIVE ORDER U-R-005-0297 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 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 2008 8KLXL03.3JD7		DISPLACEMENT (liters)	FUEL TYPE	USEFUL LIFE (hours)	
		3.3	Diesel		
SPECIAL FEATURES & EMISSION CONTROL SYSTEMS			TYPICAL EQUIPMENT APPLICATION		
Direct Diesel Injection, Turbocharger, Charge Air Cooler, Engine Control Module			Dump Truck		

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		EXHAUST (g/kw-hr)			OPACITY (%)				
POWER CLASS	STANDARD CATEGORY		нс	NOx	NMHC+NOx	co	PM	ACCEL	LUG	PEAK
75 <u><</u> kW < 130	Tier 3	STD	N/A	N/A	4.0	5.0	0.30	20	15	50
		CERT			3.8	1.4	0.21	6	2	13

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 2007.

Annette Hebert, Chief

Mobile Source Operations Division

Smutt Blake

AMAMENT 6-4 (Engine Model Summary Template

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11-6-00	

8.Fuel Rate: 9.Emission Control (Ibs/hr)@peak torqueDevice Per SAE J1930	EM,TC,CAC,DFI,ECM		EM,TC,CAC,DFI,ECM	
8.Fuel Rate: (lbs/hr)@peak torqu	35		35	mad for any collection on the compression of the collection of the
7.Fuel Rate: mm/stroke@peak torque	101		101	de mar men experimental de menor estado de la menor de menor estado de la menor de menor de menor de menor de m
6.Torque @ RPM (SEA Gross)	304@1600		304@1600	e de la composito de la compos
5.Fuel Rate: lbs/hr) @ peak HP (for diesels only)	43		43	Andrea de la compansión d
4. Fuel Rate: 5. Fuel Rate: mm/stroke @ peak HP (lbs/hr) @ peak HP 6. Torque @ RPM (for diesel only) (for diesels only) (SEA Gross)	82		82	Anna and gifted the grade special statement and grade special special statements.
	110@2400		110@2400	annedete later dependent mer eksperiet fels mannet at gement (sommer).
3.BHP@RPM Engine Family 1.Engine Code 2.Engine Model (SAE Gross)	3C04 SAA4D95LE-5-B 11		QSB3.3	
1.Engine Code	3C04	THE PROPERTY OF STREET, STREET	FR30230	
Engine Family	8KLXL03.3JD7		8CEXL03.3ACA FR30230 QSB	mand) of the majorophy, includes more more and and other in a point incoming a con-