

KOMATSU LIMITED

EXECUTIVE ORDER U-R-005-0299 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	DISPLACEMENT (liters)	FUEL TYPE	USEFUL LIFE (hours)		
2008	8KLXL15.2ED7	15.2	Diesel	8000		
	FEATURES & EMISSION	CONTROL SYSTEMS	TYPICAL EQUIPMENT API			
Engin	e Control Module, Direc Turbocharger, Charge Exhaust Gas Recirc	Air Cooler,	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			. 6	XHAUST (g/kw-l		OPACITY (%)			
POWER CLASS	STANDARD CATEGORY		НС	NOx	NMHC+NOx	CO	PM	ACCEL	LUG	PEAK
225 ≤ kW < 450	Tier 3	STD	N/A	N/A	4.0	3.5	0.20	20	15	50
		CERT	-		3.5	0.4	0.13	12	5	20

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

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8.Fuel Rate: 9.Emission Control (lbs/hr)@peak torqueDevice Per SAE J1930	EM,TC,CAC,EGR,DFI,ECM	e en	e in de state de sta	:	i ishidos a j.' "Wajori pragamaka daksarrari kerurari akraindennesi arrak i dervenesirikyrsiana aransara	refer or the community with the community of community of the community of	- (Antifestation) (Basin Maria (Basin Antifestation) (Basin Antifestation) (Antifestation) (Basin Antifestation) (Basin Antifestatio	edicimation and souther immers adapted common and act on maximum particles on the design of the entities of the	edicated variation and extra metal and consumers and assume a second charles to the state of the second tables	anderson to the format of the comment of the commen	(PRIMATA PARA) A de	e de la companya del la companya de la companya del la companya de	an a nouvrou menendadusidusto ku kinjel na ci kapinji jada novalenja jodinjela jodinjelaji od vijelaji vijela v
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7.Fuel Rate: mm/stroke@peak torque	365	والمتقابلة فيستماء فالمستقارك المتابة والماقية			i frenchische frühter der beim summerter ist errunsereruben aufster ereiten	abbraibeleann it in the special state of the specia	e agricipation de la marcha de l	en e	opposites of Apposites to reposite the sure sure forms of Substituted to the sure of the substituted of the	A THE CASE OF THE PARTY OF THE	The same with a second served served to the contract to the co	and the same of the same of the same same same same same same same sam	Consideration of the Constitution of the Const
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