

KOMATSU LIMITED

EXECUTIVE ORDER U-R-005-0249 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)		
2006	6KLXL0505AAE	8.3	Diesel	8000		
SPECIAL FEATURES & EMISSION CONTROL SYSTEMS			TYPICAL EQUIPMENT APPLICATION			
Direct Die	sel Injection, Turbocharge Engine Control Mo	er, Charge Air Cooler, dules	Loader, Tractor, Doze	Loader, Tractor, Dozer		

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
130 ≤ kW < 450	Tier 3	STD	N/A	N/A	4.0	3.5	0.20	20	15	50
		CERT			4.0	1.7	0.17	4	1	11

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 2005.

Allen Lydns, Chief

Mobile Source Operations Division

ATTACHMENT PR 10+1

2005-12-12 14:51	cummins ∢
U-R-005-0249	8.Fuer Hate: (tbs/h1) @peak torque Device Per SAE J1930 105.2
2	7.Fuel Rate: mm/stroke@peak torque 208 180 166
Form	6.Torque @ HPM (SEA Gross) 1020@1500 833@1450 746@1450 752@1450
Engine Model Summary Form	5. Fuel Rate: (lbs/hr) @ peak HP (for dlessels only) 118.2 95.5 79.5
Engine Mo	4.Fuel Rate: mm/stroke @ peak HP (for dieset only) 159 145 121
	3.8HP@RPM (SAE Gross) 305@2200 260@1950 207@1950 232@2100
Komatsu Ltd. Nonroad Cl 6KLXL0505AAE L413 New Submission	2.Engine Model SAA6D114E-3 SAA6D114E-3 SAA6D114E-3 SAA6D114E-3
Manufacturer: Komatsu Ltd. Engine category: Nonroad Cl EPA Engine Family, 6KLXL0505AAE Mfr Family Name: L413 Process Code: New Submission	1.Engine Code 8539;FR91358 8537;FR91356 8537;FR91497 8537;FR91711