

	KOMATSU LIMITED	EXECUTIVE ORDER U-R-005-0267 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)
2007	7KLXL03.3JB3	3.3	Diesel	8000
SPECIAL FEATURES & EMISSION CONTROL SYSTEMS			TYPICAL EQUIPMENT APPLICATION	
Direct Diesel Injection, Turbocharger			Crane, Loader, Tractor, Dozer, Pump, Compressor, Generator and Other Industrial Equipment	

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 (NO_x), or non-methane hydrocarbon plus oxides of nitrogen (NMHC+NO_x), 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 POWER CLASS	EMISSION STANDARD CATEGORY		EXHAUST (g/kw-hr)					OPACITY (%)		
			HC	NO _x	NMHC+NO _x	CO	PM	ACCEL	LUG	PEAK
37 ≤ kW < 75	Tier 2	STD	N/A	N/A	7.5	5.0	0.40	20	15	50
		CERT	--	--	6.7	1.2	0.28	8	4	16

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 15 day of December 2006.


 Annette Hebert, Chief
 Mobile Source Operations Division

ATTACHMENT P 1 of 2
LARGE ENGINE MODEL SUMMARY

9/15/06

U-R-005-0267

Manufacturer: **KOMATSU Ltd.** Process Code: **New Submission**

EPA Engine Family: **7KLXL03.3JB3** Manufacturer Family Name: **S4D95LE-3**

1. Engine Code	2. Engine Model	3. BHP@RPM (SAE Gross)	4. Fuel Rate: mm/stroke @ peak HP (for diesel only)	5. Fuel Rate: (lbs/hr) @ peak HP (for diesels only)	6. Torque @ RPM (SEA Gross)	7. Fuel Rate: mm/stroke@peak tor que	8. Fuel Rate: (lbs/hr)@peak torque	9. Emission Control Device Per SAE J1930
2C02	S4D95LE-3	65@2100	54	25	192@1450	60	19	TC, EM, DDI
2C03	S4D95LE-3	57@1850	51	21	178@1500	53	17	EM
2C04	S4D95LE-3	85@2600	59	34	215@1600	68	24	EM
2C07	S4D95LE-3	80@2200	60	30	215@1600	67	24	EM
2C08	S4D95LE-3	75@2600	51	29	195@1600	59	21	EM
2C09	S4D95LE-3	80@2200	60	30	215@1600	67	24	EM
2C17	S4D95LE-3	74@2350	56	29	188@1600	61	22	EM
2C18	S4D95LE-3	83@2350	63	33	215@1600	70	25	EM
2C20	S4D95LE-3	71@2000	50	27	199@1600	53	21	EM
2G01	S4D95LE-3	73@1800	69	28	---	---	---	EM
2G02	S4D95LE-3	81@1800	79	32	---	---	---	EM

LARGE ENGINE MODEL SUMMARY

Manufacturer: **KOMATSU Ltd.** Process Code: **New Sub - continued**

EPA Engine Family: **7KLXL03.3JB3** Manufacturer Family Name: **S4D95LE-3**

1.Engine Code	2.Engine Model	3.BHP@RPM (SAE Gross)	4.Fuel Rate: mm/stroke @ peak HP (for diesel only)	5.Fuel Rate: (lbs/hr) @ peak HP (for diesels only)	6.Torque @ RPM (SEA Gross)	7.Fuel Rate: mm/stroke@peak tor que	8.Fuel Rate: (lbs/hr)@peak torque	9.Emission Control Device Per SAE J1930
FR30203	B3.3	85@2600	59	34	215@1600	68	24	TC, EM, CDI
FR30204	B3.3	80@2200	60	30	215@1600	67	24	EM
FR30208	B3.3	75@2600	51	29	195@1600	59	21	EM
FR30219	B3.3	65@2100	54	25	192@1450	60	19	EM
FR30220	B3.3	80@2200	60	30	215@1600	67	24	EM
FR30226	B3.3	74@2350	56	29	188@1600	61	22	EM
FR30227	B3.3	83@2350	63	33	215@1600	70	25	EM
FR30207	4BT3.3-G4 NR2	73@1800	69	28	---	---	---	EM
FR30205	4BT3.3-G6 NR2	81@1800	79	32	---	---	---	EM