

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-45-9;

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)
2002	2KLXL03.3JB1	3.3	Diesel	8000
SPECIAL FEATURES & EMISSION CONTROL SYSTEMS			TYPICAL EQUIPMENT APPLICATION	
Direct Diesel Injection, Turbocharger, Charge Air Cooler			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 (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):

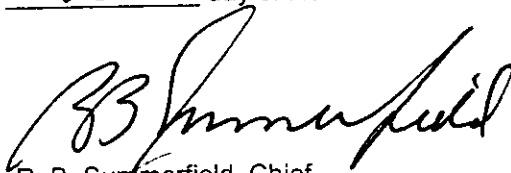
RATED POWER CLASS	EMISSION STANDARD CATEGORY	STD	EXHAUST (g/kw-hr)					OPACITY (%)		
			HC	NOx	NMHC+NOx	CO	PM	ACCEL	LUG	PEAK
37 ≤ KW < 75	Tier 1	STD	N/A	9.2	N/A	N/A	N/A	20	15	50
		CERT	--	8.2	--	--	--	7	4	14

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 13th day of November 2001.


 R. B. Summerfield, Chief
 Mobile Source Operations Division

LARGE ENGINE MODEL SUMMARY

ATTACHMENT

U-R-005-0095 -1

Manufacturer: **KOMATSU Ltd.** Process Code: **Running Change**
 EPA Engine Family: **2KLXL03.3JB1** Manufacturer Family Name: **S4D95LE-2**
 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 torque 8. Fuel Rate: (lbs/hr) @ peak torque 9. Emission Control Device Per SAE J1930

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 torque	8. Fuel Rate: (lbs/hr) @ peak torque	9. Emission Control Device Per SAE J1930
KV4	S4D95LE-2	85@2600	57	33	224@1600	68	24	EM
KV5	S4D95LE-2	85@2600	57	33	215@1600	66	23	EM
KV6	S4D95LE-2	80@2200	61	30	215@1600	66	23	EM
KV7	S4D95LE-2	75@2600	51	29	195@1600	59	21	EM
KV8	S4D95LE-2	82@2400	58	31	215@1600	66	23	EM
KJ4	S4D95LE-2	82@1800	75	30	---	---	---	EM
KI5	S4D95LE-2	85@2600	54	31	215@1600	63	22	EM
CPL2673FRKV004	B3.3	85@2600	57	33	224@1600	68	24	EM
CPL2673FR30003	B3.3	85@2600	57	33	215@1600	66	23	EM
CPL2674FR30004	B3.3	80@2200	61	30	215@1600	66	23	EM
CPL2673FR30008	B3.3	75@2600	51	29	195@1600	59	21	EM
CPL2676FR30005	B3.3-G2	82@1800	75	30	---	---	---	EM
CPL8020FR30009	B3.3	85@2600	54	31	215@1600	63	22	EM