

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	2KLXL11.0DB1	11.0	Diesel	8000
SPECIAL FEATURES & EMISSION CONTROL SYSTEMS			TYPICAL EQUIPMENT APPLICATION	
Direct Diesel Injection, Turbocharger, Charge Air Cooler			Dozer, 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):

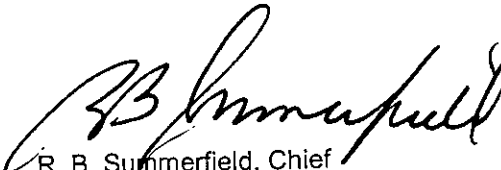
RATED POWER CLASS	EMISSION STANDARD CATEGORY		EXHAUST (g/kw-hr)					OPACITY (%)		
			HC	NOx	NMHC+NOx	CO	PM	ACCEL	LUG	PEAK
130 ≤ KW < 225	Tier 1	STD	1.3	9.2	N/A	11.4	0.54	20	15	50
		CERT	0.5	8.4	--	0.7	0.23	16	4	27

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 15th day of November 2001.


 R. B. Summerfield, Chief
 Mobile Source Operations Division

ATTACHMENT

LARGE ENGINE MODEL SUMMARY

U-R-005-0100

Process Code: New Submission

Manufacturer: KOMATSU LTD.

Manufacturer Family Name: S6D125E-2

EPA Engine Family: 2KLXL11.0DB1

8. Fuel Rate: (lbs/hr)@peak torque
9. Emission Control Device Per SAE J1930

7. Fuel Rate: mm/stroke@peak torque

6. Torque @ RPM (SEA Gross)

5. Fuel Rate: (lbs/hr) @ peak HP (for diesels only)

4. Fuel Rate: mm/stroke @ peak HP (for diesel only)

3. BHP @ RPM (SAE Gross)

1. Engine Code 2. Engine Model

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
K4	S6D125E-2	203@1950	115	74	736@1200	141	56	DL, EM TC, CAC
K5	S6D125E-2	214@2000	117	77	696@1500	134	66	EM
K6	S6D125E-2	245@2000	135	89	814@1400	156	72	EM
K7	S6D125E-2	252@2200	132	96	867@1400	165	76	EM
K8	S6D125E-2	214@2000	117	77	691@1300	133	57	EM
K22	S6D125E-2	247@2100	127	88	752@1400	144	66	EM
K24	S6D125E-2	300@1800	189	113	---	---	---	---