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	ENGINE FAMILY	DISPLACEMENT (liters)	FUEL TYPE	USEFUL LIFE (hours) 8000		
YEAR 2002	2KLXL11.0DC1	11.0	Diesel			
SPECIAL FEATURES & EMISSION CONTROL SYSTEMS			TYPICAL EQUIPMENT APPLICATION			
Direct Dies	sel Injection, Turbocharg	ger, Charge Air Cooler	Loader 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	EMISSION	EXHAUST (g/kw-hr)				OPACITY (%)				
POWER	STANDARD CATEGORY		HC NO	NOx		со	РМ	ACCEL	LUG	PEAK
CLASS 30 < KW < 225		STD	1.3	9.2	N/A	11.4	0.54	20	15	50
30 ≤ KW < 225	1161 1	CERT	0.5	6.9		0.7	0.25	13	2	37

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 November 2001.

R. B. Summerfield, Chief

Mobile Source Operations Division

LARGE ENGINE MODEL SUMMARY

U-R-005-0101

ANAGEMBY

v

Manufacturer: KOMATSULTD.

Process Code: New Submission

Manufacturer Family Name:

SA6D125E-2

EPA Engine Family: 2KLXL11.0DC1

1.Engine Code

X13

5.Fuel Rate:

8.Fuel Rate: 9.Emission Control (tbs/hr)@peak torque Device Per SAE J1930 7.Fuel Rate: mm/stroke@peak.t. orque 6.Torque @ RPM (SEA Gross) (lbs/hr) @ peak HP (for diesels only) 4.Fuel Rate: mm/stroke @ peak HP (for diesel only) 3.BHP@RPM (SAE Gross) 2.Engine Model

10, EM (202, 24 72 155 786@1400 5 143 271@2200 SA6D125E-2