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 ENGINE FAMILY		DISPLACEMENT (liters)	FUEL TYPE	USEFUL LIFE (hours)		
2003	3KLXL11.0DD5	11.0	Diesel	8000		
SPECIAL FEATURES & EMISSION CONTROL SYSTEMS			TYPICAL EQUIPMENT APPLICATION			
Direct Dies	el Injection, Turbocharg Engine Control Mo	er, Charge Air Cooler, odule	Dump True	ck		

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 STANDARD CATEGORY		EXHAUST (g/kw-hr)				OPACITY (%)			
POWER CLASS			HC	NOx	NMHC+NOx	со	PM	ACCEL	LUG	PEAK
225 <u>&lt;</u> KW < 450	Tier 2	STD	N/A	N/A	6.4	3.5	0.20	20	15	50
		CERT			5.9	0.7	0.15	8	2	23

**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

grt4 \_\_\_\_\_ day of December 2002.

Alleg/Eyons, Chief Mobile Source Operations Division LARGE ENGINE MODEL SUMMARY

W-R-002-0152

Manufacturer: KOMATSU LTD.

Process Code: Running Change.

EPA Engine Family: 3KLXL11.0DD5

1.Engine Code

Manufacturer Family Name: SAA6D125E-3

DOF, EM, ECH, TC, CM 8. Fuel Rate: 9. Emission Control (lbs/hr)@peak torque Device Per SAE J1930 103 mm/stroke@peak t 7.Fuel Rate: orque 6.Torque @ RPM (SEA Gross) 5.Fuel Rate: (lbs/hr) @ peak HP (for diesels only) mm/stroke @ peak HP (for diesei only) 4.Fuei Rate: 3.BHP@RPM (SAE Gross) 2.Engine Model

> EM,EQ EM.EC EM.EC 92 87 80 87 196 185 190 221 187 1157@1400 974@1400 974@1400 938@1400 938@1400 116 100 35 66 90 173 149 143 143 149 283@2000 274@2000 283@2000 335@2000 274@2000 SAA6D125E-3 SAA6D125E-3 SAA6D125E-3 SAA6D125E-3 SAA6D125E-3 2C04 2C10 2C03 2C11 2C07

03/1/21