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)			
2002	2KLXL15.2ED3	15.2	Diesel	8000			
SPECIAL FEATURES & EMISSION CONTROL SYSTEMS			TYPICAL EQUIPMENT APPLICATION				
Engin	e Control Module, Direct Turbocharger, Charge	Diesel Injection, Air Cooler	Dump Truck				

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	EMISSION STANDARD		EXHAUST (g/kw-hr)				OPACITY (%)			
CLASS	CATEGORY		HC	NOx	NMHC+NOx	со	PM	ACCEL	LUG	PEAK
225 <u><</u> KW < 450	Tier 2	STD	N/A	N/A	6.4	3.5	0.20	20	15	50
		CERT			6.0	0.8	0.14	16	3	33

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

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R. B. Summerfield, Chief

Mobile Source Operations Division

4-R-cos-0106

LARGE ENGINE MODEL SUMMARY

ATTAGMENT

Manufacturer: KOMATSULTD

EPA Engine Family: 2KLXL15.2ED3

Manufacturer Family Name:

Process Code: New Submission.

5.Fuel Rate:

7.Fuel Rate: mm/stroke@peak t SAA6D140E-3

6.Torque @ RPM (SEA Gross)

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

3.BHP@RPM (SAE Gross)

2.Engine Model

1.Engine Code

508@2000 444@2000 474@1800

SAA6D140E-3

2C02 2C05 3C06

SAA6D140E-3 SAA6D140E-3

1598@1400 1512@1400 1594@1350

586

141

DOI,EM, ECM, EM,ECM EM, ECM

141

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

orque

(lbs/hr) @ peak HP (for diesels only)

256 230 262

169 153 238

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