## State of California AIR RESOURCES BOARD

## EXECUTIVE ORDER U-R-10-16 Relating to Certification of New Heavy-Duty Off-Road Equipment Engines

## KOMATSU

Pursuant to the authority vested in the Air Resources Board at Sections 43000.5, 43013, and 43018 of the Health and Safety Code; and

Pursuant to the authority vested in the undersigned at Sections 39515 and 39516 of the Health and Safety Code and Executive Order G-45-9; and

IT IS ORDERED AND RESOLVED: That the following diesel engines and the exhaust emission control systems produced by the manufacturer are certified as described below for use in heavy-duty off-road equipment:

Model Year: 2000

Typical Equipment Usage: Loader

Engine Power Ratings Range: over 750 horsepower

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Fuel Type: Diesel

	Displaceme		Exhaust Emission Control
Engine Family	<u>Liters</u>	<u>Cubic Inches</u>	Systems and Special Features
YKLXL030.AAA	30.0	1842	Engine Control Module
(A573)			Turbocharger
			Charge Air Cooler

The engine models and codes are listed on attachments. Production engines shall be in all material respects the same as those for which certification is granted.

The exhaust emission certification standards and certification values in grams per brake horsepower-hour (g/bhp-hr) for total hydrocarbons (THC), carbon monoxide (CO), nitrogen oxides (NOx), and particulate matter (PM), and the opacity-of-smoke certification standards and certification values in percent (%) during acceleration (Accel), lugging (Lug), and the peak-values from either mode (Peak) for this engine family are as follows (Title 13, California Code of Regulations, Section 2423):

<u>Exh</u>	Exhaust Emissions (g/bhp-hr)				Smoke Opacity (%)			
Standard	<u>THC</u> 1.0	<u>CO</u> 8.5	<u>NOx</u> 6.9	<u>PM</u> 0.4	Accel 20	<u>Lug</u> 15	<u>Peak</u> 50	
Certification	0.2	0.3	5.2	0.1	13	2	24	

BE IT FURTHER RESOLVED: That the listed engine models comply with "Exhaust Emission Standards and Test Procedures—Heavy-Duty Off-Road Diesel-Cycle Engines" (Title 13, California Code of Regulations, Section 2423) for the aforementioned model-year.

BE IT FURTHER RESOLVED: That the listed engine models also comply with "Emission Control Labels—1996 and Later Heavy-Duty Off-Road Diesel-Cycle Engines" (Title 13, California Code of Regulations, Section 2424) for the aforementioned modelyear.

BE IT FURTHER RESOLVED: That for the listed engine models, the manufacturer has submitted the materials to demonstrate certification compliance with the Board's emission control system warranty provisions (Title 13, California Code of Regulations, Sections 2425 *et seq.*).

Engines certified under this Executive Order must conform to all applicable California emission regulations.

Executed at El Monte, California this 28th day of December 1999.

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Raphael Susnowitz

R. B. Summerfield, Chief Mobile Source Operations Division

Engine Model Summary Form

Manufacturer: Komatsu Engine category: Nonroad Cl EPA Engine Family: YKLXL030.AAA

91-01-X-n

Mfr Family Name: A573 Process Code: New Submission

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