KOMATSU LIMITED

EXECUTIVE ORDER U-R-005-0383 New Off-Road Compression-Ignition Engines

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 YEAR	ENGINE FAMILY	DISPLACEMENT (liters)	FUEL TYPE	USEFUL LIFE (hours)		
2012	CKLXL03.3JD9	3.3	Diesel			
SPECIAL FEATURES & EMISSION CONTROL SYSTEMS			TYPICAL EQUIPMENT APPLICATION			
Electronic Direct Injection, Turbocharger, Charge Air Cooler, Engine Control Module			Dozer 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 STANDARD CATEGORY		EXHAUST (g/kw-hr)					OPACITY (%)		
POWER CLASS			нс	NOx	NMHC+NOx	СО	P M	ACCEL	LUG	PEAK
37 ≤ kW < 56	Tier 4 - Interim	STD	N/A	N/A	4.7	5.0	0.30	20	15	50
		CERT			4.3	1.4	0.22	3	2	5

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 August 2011.

Annette Hebert, Chief

Mobile Source Operations Division

Attachment 1061

Engine Model Summary Template

U-R-005-0383 8-24-2012

Engine Family	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		9.Emission Control DeDevice Per SAE J1930
CKLXL03.3JD9	3C27	SAA4D95LE-5-C	68@1950	61	26	201@1600	67	24	EM,TC,CAC,DFI,ECM
CKLXL03.3JD9	3C28	SAA4D95LE-5-C	57@1950	54	23	179@1500	61	20	EM,TC,CAC,DFI,ECM
CKLXL03.3JD9	3C30	SAA4D95LE-5-C	71@2150	61	28	217@1400	72	22	EM,TC,CAC,DFI,ECM
CKLXL03.3JD9	3C 29	SAA4D95LE-5-C	57@1950	53	23	179@1500	59	20	EM,TC,CAC,DFI,ECM
-to-the little of the state of	man kiroko 1888 kalendok arri 1864 1860 kiloko 1880 1880 1880 1880 1880 1880 1880 188						n official designation and access to the decrease of contract to the contract		
NEW PRODUCTION OF THE PROPERTY		SONONNIE ANGOSOMANIONI (SA MANIETE L. POLITICE).	sillikka keke wenamananan naga musasa nanunka, ver o oogapaga p						TOTAL ARMAN, I.S. A.