

KOMATSU, LTD.

EXECUTIVE ORDER U-R-005-0530New Off-Road

Compression-Ignition Engines

Pursuant to the authority vested in California 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-19-095;

IT IS ORDERED AND RESOLVED: That the following compression-ignition engines and emission control systems 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)				
2023	PKLXL04.5AAI	4.5	Diesel	8000				
SPECIAL	. FEATURES & EMISSION (CONTROL SYSTEMS	TYPICAL EQUIPMENT APPLICATION					
Oxidatio Direct	ive Catalyst Reduction in Catalyst, Oxidation C t Injection, Turbocharge tion, Electronic Control Cooler	atalyst, Electronic er, Exhaust Gas	Loader, Dozer, Excava	tor				

The engine models and codes are attached.

The following are the exhaust certification standards (STD) and certification levels (CERT) for non-methane hydrocarbon (NMHC), 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 CLASS	EMISSION			ı	EXHAUST (g/kw-l	OPACITY (%)				
	STANDARD CATEGORY		NMHC	NOx	NMHC+NOx	СО	PM	ACCEL	LUG	PEAK
75 ≤ kW < 130	Tier 4 Final	STD	0.19	0.40	N/A	5.0	0.02	N/A	N/A	N/A
		CERT	0.05	0.10		0.03	0.02			

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 on this 6th day of August 2022.

Robin U. Lang, Chief

Emissions Certification and Compliance Division

Jolin U. Lang

Attachment: Engine Models EO #: U-R-005-0530 Family: PKLXL04.5AAI Attachment Last Revised: 7/19/2022

					Displacement -		Peak Power -	Peak Power -	Peak Power -	Peak Power - Fue		Peak Torque -	Peak Torque -	Peak Torque -	Peak Torque -				
Model	Code	Trim	Config	Displacement	Units	Peak Power	Units	Speed (rpm)	Fueling	Units	Peak Torque	Units	Speed (rpm)	Fuel	Fuel Units	OBD	GHG	Special	Notes
SAA4D107 E-3	OB1	N/A	14	4.5	Liters	173	horsepower	2500	115	mm3/stroke	520	lb-ft	1500	52	lb/hr	N/A	N/A	N/A	EM, SCR- U, AMOX, OC, DFI, TC, EGR, ECM, CAC
SAA4D107 E-3	OB2	N/A	14	4.5	Liters	121	horsepower	2100	89	mm3/stroke	368	lb-ft	1500	35	lb/hr	N/A	N/A	N/A	EM, SCR- U, AMOX, OC, DFI, TC, EGR, ECM, CAC
SAA4D107 E-3	ОВЗ	N/A	14	4.5	Liters	148	horsepower	2000	111	mm3/stroke	472	lb-ft	1500	45	lb/hr	N/A	N/A	N/A	EM, SCR- U, AMOX, OC, DFI, TC, EGR, ECM, CAC
SAA4D107 E-3	OB4	N/A	14	4.5	Liters	128	horsepower	2000	97	mm3/stroke	442	lb-ft	1350	39	lb/hr	N/A	N/A	N/A	EM, SCR- U, AMOX, OC, DFI, TC, EGR, ECM, CAC
SAA4D107 E-3	OB5	N/A	14	4.5	Liters	133	horsepower	2200	94	mm3/stroke	431	lb-ft	1450	41	lb/hr	N/A	N/A	N/A	EM, SCR- U, AMOX, OC, DFI, TC, EGR, ECM, CAC
SAA4D107 E-3	OB6	N/A	14	4.5	Liters	148	horsepower	2200	103	mm3/stroke	472	lb-ft	1500	46	lb/hr	N/A	N/A	N/A	EM, SCR- U, AMOX, OC, DFI, TC, EGR, ECM, CAC