

KOMATSU, LTD.

EXECUTIVE ORDER U-R-005-0532New 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	PKLXL08.9AAM	8.9	Diesel 8000							
SPECIAL	FEATURES & EMISSION C	CONTROL SYSTEMS	TYPICAL EQUIPMENT APPLICATION							
Recircula Control M Amm	harger, Charge Air Coo ation, Electronic Direct I lodule, Selective Cataly onia Oxidation Catalysi kidation Catalyst, Oxida	njection, Electronic vst Reduction-Urea, t, Periodic Trap	Loader, Dozer							

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	EMISSION			ı	EXHAUST (g/kw-l	OPACITY (%)				
POWER CLASS	STANDARD CATEGORY		NMHC	NOx	NMHC+NOx	со	PM	ACCEL	LUG	PEAK
130 ≤ kW ≤ 560	Tier 4 Final	STD	0.19	0.40	N/A	3.5	0.02	N/A	N/A	N/A
		CERT	0.000	0.11		0.5	0.000			

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.

Polin U. Lang

Executed on this 6th day of August 2022.

Robin U. Lang, Chief

Emissions Certification and Compliance Division

Attachment: Engine Models

EO #: U-R-005-0532

Family: PKLXL08.9AAM

Attachment Last Revised: ___7/21/2022

					Displacement -		Peak Power -	Peak Power -	Peak Power -	Peak Power - Fuel		Peak Torque -	Peak Torque -		Peak Torque - Fue				
Model	Code	Trim	Config	Displacement	Units	Peak Power	Units	Speed (rpm)	Fueling	Units	Peak Torque	Units	Speed (rpm)	Peak Torque - Fuel		OBD	GHG	Special	Notes
SAA6D114 E-6	CPL4353 :FR9451 6		16	8.9	Liters	271	horsepower	1950	145	mm3/stroke	864	lb-ft	1450	170	mm3/stroke	N/A	N/A		EM, TC, CAC, EGR, DFI, ECM, SCR-U, AMOX, PTOX, OC
SAA6D114 E-6	CPL4354 :FR9451 7		16	8.9	Liters	220	horsepower	1950	120	mm3/stroke	774	lb-ft	1450	153	mm3/stroke	N/A	N/A		EM, TC, CAC, EGR, DFI, ECM, SCR-U, AMOX, PTOX, OC
SAA6D114 E-6	CPL4353 :FR9530 5		16	8.9	Liters	271	horsepower	1950	146	mm3/stroke	864	lb-ft	1450	167	mm3/stroke	N/A	N/A		EM, TC, CAC, EGR, DFI, ECM, SCR-U, AMOX, PTOX, OC
SAA6D114 E-6	CPL5419 :FR9694 9		16	8.9	Liters	271	horsepower	1950	145	mm3/stroke	864	lb-ft	1450	170	mm3/stroke	N/A	N/A	N/A	EM, TC, CAC, EGR, DFI, ECM, SCR-U, AMOX, PTOX, OC
SAA6D114 E-6	CPL5453 :FR9695 0		16	8.9	Liters	220	horsepower	1950	120	mm3/stroke	774	lb-ft	1450	153	mm3/stroke	N/A	N/A	N/A	EM, TC, CAC, EGR, DFI, ECM, SCR-U, AMOX, PTOX, OC
SAA6D114 E-6	CPL5419 :FR9695		16	8.9	Liters	271	horsepower	1950	146	mm3/stroke	864	lb-ft	1450	167	mm3/stroke	N/A	N/A	N/A	EM, TC, CAC, EGR, DFI, ECM, SCR-U, AMOX, PTOX, OC
SAA6D114 E-6	CPL5453 :FR9717 2		16	8.9	Liters	240	horsepower	2100	126	mm3/stroke	783	lb-ft	1450	156	mm3/stroke	N/A	N/A	N/A	EM, TC, CAC, EGR, DFI, ECM, SCR-U, AMOX, PTOX, OC
SAA6D114 E-6	CPL5419 :FR9763 7		16	8.9	Liters	271	horsepower	1950	145	mm3/stroke	864	lb-ft	1450	170	mm3/stroke	N/A	N/A	N/A	EM, TC, CAC, EGR, DFI, ECM, SCR-U, AMOX, PTOX, OC

Attachment: Engine Models EO #: U-R-005-0532 Family: PKLXL08.9AAM Attachment Last Revised: 7/21/2022

					Displacement -		Peak Power -	Peak Power -	Peak Power -	Peak Power - Fuel Peak Tor			Peak Torque - Peak Torque - Fuel						
Model	Code	Trim	Config	Displacement	Units	Peak Power	Units	Speed (rpm)	Fueling	Units	Peak Torque	Units	Speed (rpm)	Peak Torque - Fuel	Units	OBD	GHG	Special	Notes
SAA6D114 E-6	CPL5453 :FR9763 9		16	8.9	Liters	220	horsepower	1950	120	mm3/stroke	774	lb-ft	1450	153	mm3/stroke	N/A	N/A	N/A	EM, TC, CAC, EGR, DFI, ECM, SCR-U, AMOX, PTOX, OC
SAA6D114 E-6	CPL5419 :FR9763 8		16	8.9	Liters	271	horsepower	1950	146	mm3/stroke	864	lb-ft	1450	167	mm3/stroke	N/A	N/A	N/A	EM, TC, CAC, EGR, DFI, ECM, SCR-U, AMOX, PTOX, OC