

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)
2007	7KLXL045.AAA	45.0, 60.0	Diesel	8000
SPECIAL FEATURES & EMISSION CONTROL SYSTEMS			TYPICAL EQUIPMENT APPLICATION	
Direct Diesel Injection, Turbocharger, Charge Air Cooler, Engine Control Module			Mine Truck	

The engine models and codes are attached.

The following are the exhaust certification standards (STD), or family emission limit(s) (FEL) as applicable, 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 CLASS	EMISSION STANDARD CATEGORY		EXHAUST (g/kw-hr)					OPACITY (%)		
			HC	NOx	NMHC+NOx	CO	PM	ACCEL	LUG	PEAK
kW > 560	Tier 2	STD	N/A	N/A	6.4	3.5	0.20	20	15	50
		FEL	N/A	N/A	9.3	N/A	N/A	N/A	N/A	N/A
		CERT	--	--	8.5	1.8	0.15	16	5	29

BE IT FURTHER RESOLVED: That the family emission limit(s) (FEL) is an emission level declared by the manufacturer for use in any averaging, banking and trading program and in lieu of an emission standard for certification. It serves as the applicable emission standard for determining compliance of any engine within this engine family under 13 CCR Sections 2423 and 2427.


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.

This Executive Order hereby cancels and replaces Executive Order U-R-005-0262 dated November 6, 2006.

Executed at El Monte, California on this 12th day of March 2007.


 J. Lawrence
 Bannette Hebert, Chief
 Mobile Source Operations Division

Engine Model Summary Form

ATTACHMENT Pg 1 of 1

U-R-005-0262-1

Manufacturer: Komatsu Limited
Engine category: Nonroad CI
EPA Engine Family: 7KLXL045.AAA
Mfr. Family Name: A593
Process Code: New Submission

1. Engine Code	2. Engine Model	3. BHP @ RPM (SAE Gross)	4. Fuel Rate: mm ³ /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 ³ /stroke @ peak torque	8. Fuel Rate: (lbs/hr) @ peak torque	9. Emission Control Device Per SAE J1930
2853:FR6268	SDA12V160	1487 @ 1900	398	510	5042 @ 1300	464	407	DDI,ECM,TCC,CA
2469:FR6268	SDA12V160	1487 @ 1900	398	510	5042 @ 1300	464	407	DDI,ECM,TCC
2855:FR6284	SSDA16V160	1782 @ 1900	356	609	6274 @ 1500	428	577	DDI,ECM,TCC
2948:FR6284	SSDA16V160	1782 @ 1900	356	609	6274 @ 1500	428	577	DDI,ECM,TCC
2848:FR6329	SSDA16V160	2500 @ 1900	497	850	7257 @ 1500	506	682	DDI,ECM,TCC
2849:FR6329	SSDA16V160	2500 @ 1900	497	850	7257 @ 1500	506	682	DDI,ECM,TCC
2849:FR6554	SSDA16V160	2500 @ 1900	497	850	7257 @ 1500	606	682	DDI,ECM,TCC
2851:FR6339	SSDA16V160	2700 @ 1900	535	919	7840 @ 1500	546	737	DDI,ECM,TCC
2849:FR6378	SSDA16V160	2000 @ 1800	423	684	6169 @ 1500	436	588	DDI,ECM,TCC
2849:FR6379	SSDA16V160	1875 @ 1800	398	645	6169 @ 1500	436	588	DDI,ECM,TCC