

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)
2006	6KLXL15.2ED6	15.2	Diesel	8000
<b>SPECIAL FEATURES &amp; EMISSION CONTROL SYSTEMS</b>			<b>TYPICAL EQUIPMENT APPLICATION</b>	
Engine Control Module, Direct Diesel Injection, Turbocharger, Charge Air Cooler, Exhaust Gas Recirculation			Loader, 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):

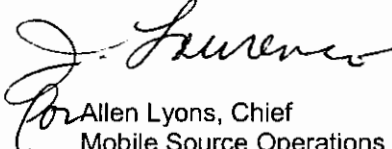
RATED POWER CLASS	EMISSION STANDARD CATEGORY		EXHAUST (g/kw-hr)					OPACITY (%)		
			HC	NOx	NMHC+NOx	CO	PM	ACCEL	LUG	PEAK
225 ≤ kW < 450	Tier 3	STD	N/A	N/A	4.0	3.5	0.20	20	15	50
		CERT	--	--	3.5	0.4	0.15	11	4	16

**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 2<sup>nd</sup> day of August 2005.

  
 For Allen Lyons, Chief  
 Mobile Source Operations Division

# ATTACHMENT Pg 1 of 1

## LARGE ENGINE MODEL SUMMARY

05/4/16

U-R-005-0230

Manufacturer: **KOMATSU LTD.**

Process Code: **New Submission**

EPA Engine Family: **6KLLX15.2ED6**

Manufacturer Family Name: **SAA6D140E-5**

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 t orque	8.Fuel Rate: (lbs/hr)@peak torque	9.Emission Control Device Per SAE J1930
3C01	SAA6D140E-5	518@2000	270	181	1601@1400	326	153	EMTC,CAC,EGR,DFI,ECM
3C02	SAA6D140E-5	357@1900	204	128	1331@1250	279	116	EMTC,CAC,EGR,DFI,ECM
3C03	SAA6D140E-5	496@1800	281	170	1619@1350	322	146	EMTC,CAC,EGR,DFI,ECM
3C04	SAA6D140E-5	433@1800	251	150	1435@1400	290	130	EMTC,CAC,EGR,DFI,ECM
3C05	SAA6D140E-5	360@1900	205	130	1353@1300	285	123	EMTC,CAC,EGR,DFI,ECM
3C06	SAA6D140E-5	452@2000	238	160	1497@1400	303	143	EMTC,CAC,EGR,DFI,ECM
3C07	SAA6D140E-5	453@2000	243	163	1541@1400	316	149	EMTC,CAC,EGR,DFI,ECM
3C08	SAA6D140E-5	407@2000	225	151	1468@1400	305	144	EMTC,CAC,EGR,DFI,ECM