

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 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)
2012	CPKXL06.6BK1	6.6	Diesel	8000
<b>SPECIAL FEATURES &amp; EMISSION CONTROL SYSTEMS</b>			<b>TYPICAL EQUIPMENT APPLICATION</b>	
Electronic Direct Injection, Turbocharger, Charge Air Cooler, Electronic Control Module, Exhaust Gas Recirculation, Diesel Oxidation Catalyst, Continuous Trap Oxidizer			Cranes, Loaders, Tractor, Dozer, Pump, Compressor, Generator Set	

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
75 ≤ kW < 130	Tier 4 / ALT NOx	STD	0.19	3.4	N/A	5.0	0.02	N/A	N/A	N/A
		CERT	0.00	2.5	--	0.1	0.00	--	--	--

**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 23 day of June 2011.

  
 Annette Hebert, Chief  
 Mobile Source Operations Division

Attachment 1 of 2

**Engine Model Summary Template**

U-R-022-0175

6/20/2011

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	8.Fuel Rate: (lbs/hr)@peak torque	9.Emission Control Device Per SAE J193
BPKXL06.6BK1	Cert Test 1	3774/2200	173@2200 <i>127.2 kw</i>	90	65	627@1400	130	60	<i>TC</i> DDI <del>TAA</del> ECM <i>CAC</i> DOC CTOX EGR EPR
BPKXL06.6BK1	1	3774/2200	173@2200	90	65	627@1400	130	60	DDI <del>TAA</del> ECM DOC CTOX EGR EPR
BPKXL06.6BK1	2	3768/1800	152@1800	88.6	52	486@1400	92.5	43	DDI <del>TAA</del> ECM DOC CTOX EGR EPR
BPKXL06.6BK1	3	3770/1800	164@1800	95.1	56	525@1400	104.3	48	DDI <del>TAA</del> ECM DOC CTOX EGR EPR
BPKXL06.6BK1	4	3772/1800	160@1800	93.1	55	572@1350	117.1	52	DDI <del>TAA</del> ECM DOC CTOX EGR EPR
BPKXL06.6BK1	5	3776/2200	155@2200	80	58	521@1400	104.5	48	DDI <del>TAA</del> ECM DOC CTOX EGR EPR
BPKXL06.6BK1	6	3778/1800	173@1800	101.6	60	608@1400	121.4	56	DDI <del>TAA</del> ECM DOC CTOX EGR EPR
BPKXL06.6BK1	7	3782/1800	146@1800	110	65	535@1350	103	46	DDI <del>TAA</del> ECM DOC CTOX EGR EPR

SUPERSEDED



**Engine Model Summary Template**

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	8.Fuel Rate: (lbs/hr)@peak torque	9.Emission Control Device Per SAE J193
BPKXL06.6BK1	8	3540/2200	119@2200 87.5 kW	62.5	45	402@1400	88.5	41	TC CAC DDI <del>TAA</del> ECM DOC CTOX EGR EPR
BPKXL06.6BK1	9	3546/2200	156@2200	80.9	59	504@1400	113.1	52	DDI <del>TAA</del> ECM DOC CTOX EGR EPR
BPKXL06.6BK1	10	3548/2200	174@2200	89.1	64	608@1400	125.7	58	DDI <del>TAA</del> ECM DOC CTOX EGR EPR

SUPERSEDED