

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	7PKXL06.6PJ1	6.6	Diesel	8000
SPECIAL FEATURES & EMISSION CONTROL SYSTEMS			TYPICAL EQUIPMENT APPLICATION	
Direct Diesel Injection, Turbo Charger, Emission Control Module			Crane, 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):

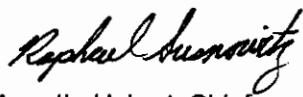
RATED POWER CLASS	EMISSION STANDARD CATEGORY		EXHAUST (g/kw-hr)					OPACITY (%)		
			HC	NOx	NMHC+NOx	CO	PM	ACCEL	LUG	PEAK
130 ≤ kW < 225	Tier 3	STD	N/A	N/A	4.0	3.5	0.20	20	15	50
		CERT	--	--	3.6	1.8	0.15	16	11	21

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 21st day of December 2006.


 for Annette Hebert, Chief
 Mobile Source Operations Division

Engine Model Summary Template

Attachment 1 of 3

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 J1930
KXL06.6PJ1	1	2636/2200	249@2200	130	94.0	774@1400	154	70.9	ECM DDI TAA
KXL06.6PJ1	2	2640/2200	237@2200	124	89.7	701@1500	146	72.0	ECM DDI TAA
KXL06.6PJ1	3	2642/2200	275@2200	141	102.0	702@1400	144	66.3	ECM DDI TAA
KXL06.6PJ1	4	2478/2200	225@2200	119	86.1	725@1400	146	67.2	ECM DDI TAA
KXL06.6PJ1	5	2544/2500	174@2500	88	72.3	513@1500	112	55.2	ECM DDI TAA
KXL06.6PJ1	6	2548/2200	188@2200	98.7	71.4	656@1400	134.3	61.8	ECM DDI TAA
KXL06.6PJ1	7	2550/2200	182@2200	95	68.7	592@1400	115	52.9	ECM DDI TAA
KXL06.6PJ1	8	2554/2200	213@2200	110	79.6	687@1400	137	63.1	ECM DDI TAA
KXL06.6PJ1	9	2558/2200	196@2200	105	76.0	643@1400	132	60.8	ECM DDI TAA
KXL06.6PJ1	10	2596/2000	231@2000	130	86.0	693@1400	140	64.4	ECM DDI TAA
KXL06.6PJ1	11	2674/2000	171@2000	99	65.1	630@1400	132	60.8	ECM DDI TAA
KXL06.6PJ1	12	2784/2000	177@2000	101	66.4	646@1400	131	60.3	ECM DDI TAA
KXL06.6PJ1	13	2788/2000	197@2000	112	73.7	723@1400	150	69.0	ECM DDI TAA
KXL06.6PJ1	14	2782/2000	172@2000	99	65.1	627@1400	128	58.9	ECM DDI TAA
KXL06.6PJ1	15	3068/2200	182@2200	95	68.7	592@1400	115	52.9	ECM DDI TAA
KXL06.6PJ1	16	3036/1800	209@1800	126.8	75.0	591@1350	136	60.4	ECM DDI TAA
KXL06.6PJ1	17	3002/2200	173@2200	94	68.0	574@1400	123	56.6	ECM DDI TAA
KXL06.6PJ1	18	2552/2200	193@2200	102	73.8	624@1400	128	59.0	ECM DDI TAA
KXL06.6PJ1	19	3004/2200	185@2200	103	74.3	611@1400	125	57.4	ECM DDI TAA
KXL06.6PJ1	20	3006/2200	203@2200	106	76.7	680@1400	137	63.1	ECM DDI TAA
KXL06.6PJ1	21	3052/2200	189@2500	91.7	75.4	594@1500	121.2	59.8	ECM DDI TAA
KXL06.6PJ1	22	3076/2100	197@2100	109.5	75.6	662@1400	139.2	64.1	ECM DDI TAA
KXL06.6PJ1	23	3074/2100	175@2100	109.5	75.6	662@1400	139.2	64.1	ECM DDI TAA
KXL06.6PJ1	24	3220/2000	224@2000	128.1	84.2	533@1300	152.1	65.0	ECM DDI TAA
KXL06.6PJ1	25	2964/1800	274@1800	158.6	94.0	800@1800	158.6	94.0	ECM DDI TAA
KXL06.6PJ1	26	3246/2100	197@2100	108	74.6	662@1400	134.9	62.1	ECM DDI TAA

Engine Model Summary Template

Attachment 2 of 3

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 J1930
KXL06.6PJ1	27	3226/2000	197@2000	113.4	74.6	723@1400	149.8	69.0	ECM DDI TAA
KXL06.6PJ1	28	3228/2000	177@2000	101.4	66.7	646@1400	143.7	66.1	ECM DDI TAA
KXL06.6PJ1	29	3288/2200	173@2200	94	68.0	575@1400	123	57.0	ECM DDI TAA
KXL06.6PJ1	30	3290/2200	182@2200	95	69	592@1400	115	53	ECM DDI TAA
KXL06.6PJ1	31	3294/2200	193@2200	102	74	624@1400	128	59	ECM DDI TAA
KXL06.6PJ1	32	3300/2200	185@2200	103	75	611@1400	125	58	ECM DDI TAA
KXL06.6PJ1	33	3302/2200	202@2200	106	77	680@1400	137	63	ECM DDI TAA
KXL06.6PJ1	34	3230/2000	172@2000	98.1	64.5	533@1400	127.3	58.6	ECM DDI TAA
KXL06.6PJ1	35	2682/1800	230@1800	131.5	77.8	670@1800	131.5	77.8	ECM DDI TAA
KXL06.6PJ1	36	2690/1800	217@1800	127.2	75.3	632@1800	127.2	75.3	ECM DDI TAA
KXL06.6PJ1	37	3210/2200	181@2200	100.7	72.8	662@1400	134.6	62	ECM DDI TAA
KXL06.6PJ1	38	3214/2000	186@2000	104.6	68.8	682@1400	136.8	63	ECM DDI TAA
KXL06.6PJ1	39	3216/2000	191@2000	108.3	71.2	699@1400	138.2	63.6	ECM DDI TAA
KXL06.6PJ1	40	3244/2100	175@2100	96.6	63.5	662@1400	140.1	64.5	ECM DDI TAA
KXL06.6PJ1	41	3286/2000	171@2000	99	65.1	630@1400	132	60.8	ECM DDI TAA
KXL06.6PJ1	42	3292/2200	188@2200	98.7	71.4	656@1400	134.3	61.8	ECM DDI TAA
KXL06.6PJ1	43	3296/2200	196@2200	105	76.0	643@1400	132	60.8	ECM DDI TAA
KXL06.6PJ1	44	3298/2200	196@2200	105	76.0	643@1400	132	60.8	ECM DDI TAA
KXL06.6PJ1	45	3304/2200	213@2200	110	79.6	687@1400	137	63.1	ECM DDI TAA
KXL06.6PJ1	46	3306/2000	224@2000	128.1	84.2	730@1300	152.1	65	ECM DDI TAA
KXL06.6PJ1	47	3322/2200	225@2200	119	86.1	727@1400	146	67.2	ECM DDI TAA
KXL06.6PJ1	48	3318/1800	202@1800	125.9	74.5	680@1400	135.2	62.2	ECM DDI TAA
KXL06.6PJ1	49	3324/2200	249@2200	130	94.0	774@1400	154	70.9	ECM DDI TAA
KXL06.6PJ1	51	3330/2000	201@2000	115.1	75.7	739@1400	100.7	46.4	ECM DDI TAA
KXL06.6PJ1	52	3334/2200	193@2200	149.4	108.1	624@1400	129.2	59.5	ECM DDI TAA
KXL06.6PJ1	53	3418/2200	182.4@2200	94.5	68.4	802@1400	123	56.6	ECM DDI TAA

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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 J1930
KXL06.6PJ1	54	3402/2200	172.9@2200	92.5	66.9	640@1400	131.2	60.4	ECM DDI TAA
KXL06.6PJ1	55	3414/2200	172.9@2200	92.5	66.9	640@1400	131.2	60.4	ECM DDI TAA