



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	7PKXL06.6PJ2	6.6	Diesel	8000
SPECIAL FEATURES & EMISSION CONTROL SYSTEMS			TYPICAL EQUIPMENT APPLICATION	
Direct Diesel Injection, Turbo Charger, Emission Control Module, Smoke Puff Limiter			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 (NO_x), or non-methane hydrocarbon plus oxides of nitrogen (NMHC+NO_x), 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	NO _x	NMHC+NO _x	CO	PM	ACCEL	LUG	PEAK
75 ≤ kW < 130	Tier 3	STD	N/A	N/A	4.0	5.0	0.30	20	15	50
		CERT	--	--	3.8	3.9	0.23	16	6	31

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

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
7PKXL06.6PJ2	1	2660/1800	174@1800	110	65.1	631@1400	132	60.8	ECM DDI TAA
7PKXL06.6PJ2	2	2526/2200	122@2200	85	61.5	354@1400	130	59.8	ECM DDI TAA
7PKXL06.6PJ2	3	2598/2100	163@2100	91	62.8	489@1400	106	49.0	ECM DDI TAA
7PKXL06.6PJ2	4	2536/2200	128@2200	85	61.5	433@1400	130	59.8	ECM DDI TAA
7PKXL06.6PJ2	5	2540/2200	156@2200	86	62.5	504@1400	110	50.6	ECM DDI TAA
7PKXL06.6PJ2	6	2952/2200	174@2200	91	62.8	513@1400	109	50.2	ECM DDI TAA
7PKXL06.6PJ2	7	2656/2000	121@2000	71	49.2	409@1400	90	41.4	ECM DDI TAA
7PKXL06.6PJ2	8	2658/2000	131@2000	85	61.5	450@1400	130	59.8	ECM DDI TAA
7PKXL06.6PJ2	9	2662/2000	168@2000	99	65.7	524@1300	110	47.0	ECM DDI TAA
7PKXL06.6PJ2	10	2664/1800	166@1800	104	61.8	579@1400	123	56.6	ECM DDI TAA
7PKXL06.6PJ2	11	2666/2000	173@2000	98	66.7	553@1400	109	50.2	ECM DDI TAA
7PKXL06.6PJ2	12	2714/2100	131@2100	85	58.7	496@1400	130	59.8	ECM DDI TAA
7PKXL06.6PJ2	13	2718/2100	151@2100	86	61.2	547@1400	118	54.3	ECM DDI TAA
7PKXL06.6PJ2	14	2772/2000	152@2000	93	61.2	551@1200	119	47.0	ECM DDI TAA
7PKXL06.6PJ2	15	2774/2000	147@2000	86	56.6	531@1200	114	45.0	ECM DDI TAA
7PKXL06.6PJ2	16	2776/2000	142@2000	85	55.9	511@1200	108	42.6	ECM DDI TAA
7PKXL06.6PJ2	17	2778/2000	157@2000	95	62.5	570@1200	121	47.7	ECM DDI TAA
7PKXL06.6PJ2	18	2780/2000	162@2000	93	61.2	590@1200	125	49.3	ECM DDI TAA
7PKXL06.6PJ2	19	2984/2200	119@2200	66	47.8	402@1400	88	40.5	ECM DDI TAA
7PKXL06.6PJ2	20	2786/2000	167@2000	96	63.1	610@1200	129	50.9	ECM DDI TAA
7PKXL06.6PJ2	21	2962/2100	131@2100	85	58.7	496@1400	130	59.8	ECM DDI TAA
7PKXL06.6PJ2	22	2990/2200	135@2200	74	53.5	449@1400	99	45.6	ECM DDI TAA
7PKXL06.6PJ2	23	2994/2200	145@2200	85	61.5	480@1400	130	59.8	ECM DDI TAA
7PKXL06.6PJ2	24	2998/2200	161@2200	85	61.5	526@1400	130	59.8	ECM DDI TAA
7PKXL06.6PJ2	25	3000/2200	162@2200	85	61.5	526@1400	130	59.8	ECM DDI TAA
7PKXL06.6PJ2	26	3038/1800	174@1800	108.1	64.0	507@1400	122.7	56.5	ECM DDI TAA

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 J1930
7PKXL06.6PJ2	27	3192/2000	171.5@2000	95.1	62.5	533@1400	110	50.6	ECM DDI TAA
7PKXL06.6PJ2	28	3232/2000	167@2000	94.7	62.3	610@1200	120	47.4	ECM DDI TAA
7PKXL06.6PJ2	29	3234/2000	162@2000	92.1	60.6	590@1200	116.4	45.9	ECM DDI TAA
7PKXL06.6PJ2	30	3236/2000	157@2000	90	59.2	570@1200	113.2	44.7	ECM DDI TAA
7PKXL06.6PJ2	31	3238/2000	152@2000	90.4	59.4	551@1200	110.9	43.8	ECM DDI TAA
7PKXL06.6PJ2	32	3240/2000	147@2000	87	57.2	531@1200	107.5	42.4	ECM DDI TAA
7PKXL06.6PJ2	33	3242/2000	142@2000	83.7	55	511@1200	134.6	53.1	ECM DDI TAA
7PKXL06.6PJ2	34	3284/2200	162@2200	87.1	63	526@1400	110.7	51	ECM DDI TAA
7PKXL06.6PJ2	35	3252/2300	152@2300	79.3	60	547@1400	116.3	53.5	ECM DDI TAA
7PKXL06.6PJ2	36	3254/2300	132@2300	71.2	53.8	496@1400	108.2	49.8	ECM DDI TAA
7PKXL06.6PJ2	37	3194/1800	156@1800	100.5	59.5	527@1350	113.4	50.3	ECM DDI TAA
7PKXL06.6PJ2	38	3388/2200	134.8@2200	77	55.7	449@1400	99.3	45.7	ECM DDI TAA
7PKXL06.6PJ2	39	3390/2200	156.2@2200	83	60.0	504@1400	109	50.2	ECM DDI TAA
7PKXL06.6PJ2	40	3392/2200	144.8@2200	79.4	57.4	480@1400	101.8	46.9	ECM DDI TAA
7PKXL06.6PJ2	41	3394/2200	160.9@2200	85.9	62.1	526@1400	110.7	51.0	ECM DDI TAA
7PKXL06.6PJ2	42	3398/2300	132.1@2300	92.5	70	496@1400	131.2	60.4	ECM DDI TAA
7PKXL06.6PJ2	43	2544/2500	173.7@2500	88	72.3	513@1500	112	55.2	ECM DDI TAA