



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	6PKXL04.4RJ1	4.4	Diesel	8000
SPECIAL FEATURES & EMISSION CONTROL SYSTEMS			TYPICAL EQUIPMENT APPLICATION	
Direct Diesel Injection, Turbocharger, Charge Air Cooler and Smoke Puff Limiter (Some Models)			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
75 ≤ KW < 130	Tier 2	STD	N/A	N/A	6.6	5.0	0.30	20	15	50
		CERT	--	--	5.4	0.6	0.28	9	3	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 12<sup>TH</sup> day of January 2006.

Allen Lyons, Chief  
Mobile Source Operations Division

# Engine Model Summary Form

ATTACHMENT 1 OF 1

**Manufacturer:** Perkins Engines Company Ltd  
**Engine category:** Nonroad CI  
**EPA Engine Family:** 6PKXL04.4RJ1  
**Mfr Family Name:** 1104C-44TA AND CATERPILLAR 3054  
**Process Code:** New Submission

u-R-022-0081

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
50 States								
1	2177/2000	126.0 @ 2000	99.0	43.4	363.0 lbf ft @	109.0	33.8	SPL TAA DDI
2	2176/2000	128.7 @ 2000	99.0	43.4	363.0 lbf ft @	109.0	33.8	SPL TAA DDI
3	2177/2200	127.4 @ 2200	97.0	47.3	363.0 lbf ft @	109.0	33.8	SPL TAA DDI
4	2176/2200	130.0 @ 2200	97.0	47.3	369.0 lbf ft @	109.0	33.8	SPL TAA DDI
5	2176/2100	129.4 @ 2100	98.0	45.6	369.0 lbf ft @	109.0	33.8	SPL TAA DDI
6	2170/2400	108.0 @ 2400	75.0	40.0	295.0 lbf ft @	87.0	27.0	SPL TAA DDI
7	2171/2400	105.3 @ 2400	75.0	40.0	289.0 lbf ft @	87.0	27.0	SPL TAA DDI
8	2170/2300	107.3 @ 2300	76.0	38.7	295.0 lbf ft @	87.0	27.0	SPL TAA DDI
9	2170/2200	106.6 @ 2200	77.0	37.5	295.0 lbf ft @	87.0	27.0	SPL TAA DDI
10	2172/2200	114.6 @ 2200	86.5	42.2	353.0 lbf ft @	106.5	33.0	SPL TAA DDI
11	2173/2200	112.0 @ 2200	86.5	42.2	347.5 lbf ft @	106.5	33.0	SPL TAA DDI
12	2174/2200	121.4 @ 2200	90.0	43.9	320.0 lbf ft @	96.5	30.0	SPL TAA DDI
13	2174/2300	122.0 @ 2300	89.0	45.4	320.0 lbf ft @	96.5	30.0	SPL TAA DDI
14	2175/2200	119.4 @ 2200	90.0	43.9	314.0 lbf ft @	96.5	30.0	SPL TAA DDI
15	2192/2200	119.4 @ 2200	92.5	45.0	368.0 lbf ft @	109.0	33.8	SPL TAA DDI
16	2193/2200	116.7 @ 2200	92.5	45.0	362.0 lbf ft @	109.0	33.8	SPL TAA DDI
17	2175/2300	119.4 @ 2300	89.0	45.4	314.0 lbf ft @	96.5	30.0	SPL TAA DDI
18	2428/1800	157.5 @ 1800	138.5	55.3				TAA DDI
19	2430/1800	126.0 @ 1800	110.5	44.1				TAA DDI
20	2171/2200	104.0 @ 2200	77.0	37.5	289 lbf ft @ 1400	87.0	27.0	SPL TAA DDI
21	2171/2300	104.6 @ 2300	77.0	37.5	289 lbf ft @ 1400	87.0	27.0	SPL TAA DDI