

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	6PKXL04.4RH1	4.4	Diesel	8000
SPECIAL FEATURES & EMISSION CONTROL SYSTEMS			TYPICAL EQUIPMENT APPLICATION	
Direct Diesel Injection, Turbocharger and Engine Control Module			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
37 ≤ KW < 75	Tier 2	STD	N/A	N/A	7.5	5.0	0.40	20	15	50
		CERT	--	--	7.1	0.7	0.28	3	2	6

**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 11<sup>th</sup> day of January 2006.

  
 Allen Lyons, Chief  
 Mobile Source Operations Division

U-R-022-0080

Manufacturer: Perkins Engines Company Ltd  
 Engine category: Nonroad CI  
 EPA Engine Family: 6PKXL04.4RH1  
 Mfr Family Name: 1104C-E44T AND CATERPILLAR 3054  
 Process Code: New Submission

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	2287/1950	95.6 @ 1950	82.3	35.7	298.0 lbf ft @	94.0	29.2	ECM DDI TC
2	2286/1950	98.0 @ 1950	82.3	35.7	304.0 lbf ft @	94.0	29.2	ECM DDI TC
3	2286/2200	99.9 @ 2200	79.0	38.5	304.0 lbf ft @	94.0	29.2	ECM DDI TC
4	2284/2200	89.2 @ 2200	72.0	35.0	286.0 lbf ft @	88.0	27.2	ECM DDI TC
5	2288/2200	99.9 @ 2200	77.0	37.4	274.4 lbf ft @	82.0	25.4	ECM DDI TC
6	2288/2300	99.9 @ 2300	74.0	37.5	274.4 lbf ft @	82.0	25.4	ECM DDI TC
7	2288/2400	99.9 @ 2400	73.5	39.0	274.4 lbf ft @	82.0	25.4	ECM DDI TC
8	2287/2200	97.2 @ 2200	77.0	37.4	298.0 lbf ft @	94.0	29.2	ECM DDI TC
9	2285/2200	89.2 @ 2200	79.0	38.5	286.2 lbf ft @	88.0	27.2	ECM DDI TC
10	2289/2200	97.2 @ 2200	77.0	37.4	268.5 lbf ft @	82.0	25.4	ECM DDI TC
11	2289/2300	97.2 @ 2300	74.0	37.5	268.5 lbf ft @	82.0	25.4	ECM DDI TC
12	2289/2400	97.2 @ 2400	73.5	39.0	268.5 lbf ft @	82.0	25.4	ECM DDI TC