



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	6PKXL04.4NJ1	4.4	Diesel	8000
SPECIAL FEATURES & EMISSION CONTROL SYSTEMS			TYPICAL EQUIPMENT APPLICATION	
Direct Diesel Injection, Turbocharger, Charge Air Cooler and Engine Control Module			Crane, Loader, Tractor, Dozer, Pump, Compressor, Generator and 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	--	--	3.6	1.2	0.17	8	2	14

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 18 day of September 2006.

Annette Hebert, Chief
Mobile Source Operations Division

Engine Model Summary Form

ATTACHMENT 1 OF 1

U-R-022-0087

Manufacturer: Perkins Engines Co. Ltd.
Engine category: Nonroad CI
EPA Engine Family: 6PKXL04.4NJ1
Mfr Family Name: PERKINS 1104D-E44TA AND CATERPILLAR
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
1	3339/2200	144@2200	114.5	55.2	413@1400	131.7	40.4	DDI TAA ECM
2	2936/2000	145@2000	121.4	53.2	405@1400	125.7	38.6	DDI TAA ECM
3	2932/2000	118@2000	100.5	44.1	391@1400	121.3	37.2	DDI TAA ECM
4	2940/2000	137@2000	116.3	51.0	405@1400	126.4	38.8	DDI TAA ECM
5	2934/2000	107@2000	91.0	40.0	354@1400	112.4	34.5	DDI TAA ECM
6	3028/2200	142@2200	112.6	54.3	410@1400	127.4	39.1	DDI TAA ECM
7	2894/2200	140@2200	130.0	62.7	405@1400	154.0	47.3	DDI TAA ECM
8	3032/2200	137@2200	109.0	52.6	395@1400	122.8	37.7	DDI TAA ECM
9	2908/2200	134@2200	109.0	52.6	391@1400	122.8	37.7	DDI TAA ECM
10	3026/2200	129@2200	104.4	50.3	381@1400	118.4	36.3	DDI TAA ECM
11	2900/2200	127@2200	104.4	50.3	376@1400	118.4	36.3	DDI TAA ECM
12	3020/2200	125@2200	100.5	48.5	366@1400	114.7	35.2	DDI TAA ECM
13	2898/2200	122@2200	100.5	48.5	361@1400	114.7	35.2	DDI TAA ECM
14	3198/2200	122@2200	100.0	48.2	361@1400	113.9	35.0	DDI TAA ECM
15	3197/2200	120@2200	100.0	48.2	358@1400	113.9	35.0	DDI TAA ECM
16	3018/2200	117@2200	97.1	46.8	381@1400	119.4	36.6	DDI TAA ECM
17	2939/2200	114@2200	97.1	46.8	376@1400	119.4	36.6	DDI TAA ECM
18	3012/2200	110@2200	91.4	44.1	358@1400	111.8	34.3	DDI TAA ECM
19	2906/2200	107@2200	91.4	44.1	354@1400	111.8	34.3	DDI TAA ECM
20	3272/2400	126@2400	95.9	50.5	364@1400	114.6	35.2	DDI TAA ECM
21	3273/2400	123@2400	95.9	50.5	361@1400	114.6	35.2	DDI TAA ECM
22	3274/2400	141@2400	105.7	55.6	394@1400	123.9	38.0	DDI TAA ECM
23	3275/2400	139@2200	105.7	51.0	391@1400	123.9	38.0	DDI TAA ECM