



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)
2005	5PKXL06.6PJ1	6.6	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 and Generator	

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
130≤KW<225	Tier 2	STD	N/A	N/A	6.6	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 28<sup>TH</sup> day of September 2005.

Allen Lyons, Chief  
Mobile Source Operations Division

# Engine Model Summary Form

ATTACHMENT 1 OF 1

U-R-022-0074

Manufacturer: Perkins Engines Co. Ltd.

Engine category: Nonroad CI

EPA Engine Family: 5PKXL06.6PJ1

Mfr Family Name: PERKINS 1106D-E66TA 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	2636/2200	249@2200	130	94.0	774	154	70.9	ECM DDI TAA
2	2640/2200	237@2200	124	89.7	701	146	72.0	ECM DDI TAA
3	2642/2200	275@2200	141	102.0	702	144	66.3	ECM DDI TAA
4	2478/2200	225@2200	119	86.1	725	146	67.2	ECM DDI TAA
5	2544/2500	174@2500	88	72.3	513	112	55.2	ECM DDI TAA
6	2548/2200	188@2200	130	94.0	656	150	69.0	ECM DDI TAA
7	2550/2200	182@2200	95	68.7	592	115	52.9	ECM DDI TAA
8	2554/2200	213@2200	110	79.6	687	137	63.1	ECM DDI TAA
9	2558/2200	196@2200	105	76.0	643	132	60.8	ECM DDI TAA
10	2596/2000	231@2000	130	86.0	693	140	64.4	ECM DDI TAA
11	2674/2000	171@2000	99	65.1	630	132	60.8	ECM DDI TAA
12	2784/2000	177@2000	101	66.4	646	131	60.3	ECM DDI TAA
13	2788/2000	197@2000	112	73.7	723	150	69.0	ECM DDI TAA
14	2884/2100	172@2100	130	89.8	653	150	69.0	ECM DDI TAA
15	2886/2100	194@2100	107	73.9	653	136	62.6	ECM DDI TAA