



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 engines and emission control systems 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)
2009	9HZXL.667C82	0.667	Diesel	3000
SPECIAL FEATURES & EMISSION CONTROL SYSTEMS			TYPICAL EQUIPMENT APPLICATION	
Direct Diesel Injection			Pump, Generator Set, Other 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
0 ≤kW < 19	Tier 4	OPTIONAL STD	N/A	N/A	7.5	6.6	0.40	N/A	N/A	N/A
		CERT	--	--	7.2	3.0	0.26	--	--	--

**BE IT FURTHER RESOLVED:** That for the listed engine models, the manufacturer has complied with the more stringent set of standards from the various power categories in conformance with Section 1039.230 (e) of the "California Exhaust Emission Standards and Test Procedures for 2008 and Later Tier 4 Off-Road Compression-Ignition Engines, Part I-C" adopted October 20, 2005.

**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 December 2008.

Annette Hebert, Chief  
Mobile Source Operations Division



Motorenfabrik Platz  
Normal CI

Attachment

P 2 of 2

6-X-630-617

**Engine Model Summary Template**

LINE	DESCRIPTION	1747 RPM MAXIMUM TORQUE	1747 RPM MAXIMUM TORQUE PERCENT	1747 RPM MAXIMUM TORQUE PERCENT	1747 RPM MAXIMUM TORQUE PERCENT	1747 RPM MAXIMUM TORQUE PERCENT	1747 RPM MAXIMUM TORQUE PERCENT	1747 RPM MAXIMUM TORQUE PERCENT	1747 RPM MAXIMUM TORQUE PERCENT
1	100%	12.7 @ 2000	37.5	8.9	22.4 @ 2000	37.5	8.9	22.4 @ 2000	DDI
2	100%	12.9 @ 2050	37.5	9.2	22.8 @ 2050	37.5	9.2	22.8 @ 2050	
3	100%	13.2 @ 2100	37.5	9.1	22.7 @ 2100	37.5	9.1	22.7 @ 2100	
4	100%	13.5 @ 2150	37.5	9.0	22.6 @ 2150	37.5	9.0	22.6 @ 2150	
5	100%	13.8 @ 2200	37.5	8.9	22.5 @ 2200	37.5	8.9	22.5 @ 2200	
6	100%	14.1 @ 2250	37.5	8.7	22.3 @ 2250	37.5	8.7	22.3 @ 2250	
7	100%	14.4 @ 2300	37.5	8.6	22.2 @ 2300	37.5	8.6	22.2 @ 2300	
8	100%	14.7 @ 2350	37.5	8.5	22.1 @ 2350	37.5	8.5	22.1 @ 2350	
9	100%	15.0 @ 2400	37.5	8.4	22.0 @ 2400	37.5	8.4	22.0 @ 2400	
10	100%	15.3 @ 2450	37.5	8.3	21.9 @ 2450	37.5	8.3	21.9 @ 2450	
11	100%	15.6 @ 2500	37.5	8.2	21.8 @ 2500	37.5	8.2	21.8 @ 2500	
12	100%	15.9 @ 2550	37.5	8.1	21.7 @ 2550	37.5	8.1	21.7 @ 2550	
13	100%	16.2 @ 2600	37.5	8.0	21.6 @ 2600	37.5	8.0	21.6 @ 2600	
14	100%	16.5 @ 2650	37.5	7.9	21.5 @ 2650	37.5	7.9	21.5 @ 2650	
15	100%	16.8 @ 2700	37.5	7.8	21.4 @ 2700	37.5	7.8	21.4 @ 2700	
16	100%	17.1 @ 2750	37.5	7.7	21.3 @ 2750	37.5	7.7	21.3 @ 2750	
17	100%	17.4 @ 2800	37.5	7.6	21.2 @ 2800	37.5	7.6	21.2 @ 2800	
18	100%	17.7 @ 2850	37.5	7.5	21.1 @ 2850	37.5	7.5	21.1 @ 2850	
19	100%	18.0 @ 2900	37.5	7.4	21.0 @ 2900	37.5	7.4	21.0 @ 2900	
20	100%	18.3 @ 2950	37.5	7.3	20.9 @ 2950	37.5	7.3	20.9 @ 2950	
21	100%	18.6 @ 3000	37.5	7.2	20.8 @ 3000	37.5	7.2	20.8 @ 3000	
22	100%	18.9 @ 3050	37.5	7.1	20.7 @ 3050	37.5	7.1	20.7 @ 3050	
23	100%	19.2 @ 3100	37.5	7.0	20.6 @ 3100	37.5	7.0	20.6 @ 3100	
24	100%	19.5 @ 3150	37.5	6.9	20.5 @ 3150	37.5	6.9	20.5 @ 3150	
25	100%	19.8 @ 3200	37.5	6.8	20.4 @ 3200	37.5	6.8	20.4 @ 3200	
26	100%	20.1 @ 3250	37.5	6.7	20.3 @ 3250	37.5	6.7	20.3 @ 3250	
27	100%	20.4 @ 3300	37.5	6.6	20.2 @ 3300	37.5	6.6	20.2 @ 3300	
28	100%	20.7 @ 3350	37.5	6.5	20.1 @ 3350	37.5	6.5	20.1 @ 3350	
29	100%	21.0 @ 3400	37.5	6.4	20.0 @ 3400	37.5	6.4	20.0 @ 3400	
30	100%	21.3 @ 3450	37.5	6.3	19.9 @ 3450	37.5	6.3	19.9 @ 3450	
31	100%	21.6 @ 3500	37.5	6.2	19.8 @ 3500	37.5	6.2	19.8 @ 3500	
32	100%	21.9 @ 3550	37.5	6.1	19.7 @ 3550	37.5	6.1	19.7 @ 3550	
33	100%	22.2 @ 3600	37.5	6.0	19.6 @ 3600	37.5	6.0	19.6 @ 3600	
34	100%	22.5 @ 3650	37.5	5.9	19.5 @ 3650	37.5	5.9	19.5 @ 3650	
35	100%	22.8 @ 3700	37.5	5.8	19.4 @ 3700	37.5	5.8	19.4 @ 3700	
36	100%	23.1 @ 3750	37.5	5.7	19.3 @ 3750	37.5	5.7	19.3 @ 3750	
37	100%	23.4 @ 3800	37.5	5.6	19.2 @ 3800	37.5	5.6	19.2 @ 3800	
38	100%	23.7 @ 3850	37.5	5.5	19.1 @ 3850	37.5	5.5	19.1 @ 3850	
39	100%	24.0 @ 3900	37.5	5.4	19.0 @ 3900	37.5	5.4	19.0 @ 3900	
40	100%	24.3 @ 3950	37.5	5.3	18.9 @ 3950	37.5	5.3	18.9 @ 3950	
41	100%	24.6 @ 4000	37.5	5.2	18.8 @ 4000	37.5	5.2	18.8 @ 4000	
42	100%	24.9 @ 4050	37.5	5.1	18.7 @ 4050	37.5	5.1	18.7 @ 4050	
43	100%	25.2 @ 4100	37.5	5.0	18.6 @ 4100	37.5	5.0	18.6 @ 4100	
44	100%	25.5 @ 4150	37.5	4.9	18.5 @ 4150	37.5	4.9	18.5 @ 4150	
45	100%	25.8 @ 4200	37.5	4.8	18.4 @ 4200	37.5	4.8	18.4 @ 4200	
46	100%	26.1 @ 4250	37.5	4.7	18.3 @ 4250	37.5	4.7	18.3 @ 4250	
47	100%	26.4 @ 4300	37.5	4.6	18.2 @ 4300	37.5	4.6	18.2 @ 4300	
48	100%	26.7 @ 4350	37.5	4.5	18.1 @ 4350	37.5	4.5	18.1 @ 4350	
49	100%	27.0 @ 4400	37.5	4.4	18.0 @ 4400	37.5	4.4	18.0 @ 4400	
50	100%	27.3 @ 4450	37.5	4.3	17.9 @ 4450	37.5	4.3	17.9 @ 4450	
51	100%	27.6 @ 4500	37.5	4.2	17.8 @ 4500	37.5	4.2	17.8 @ 4500	
52	100%	27.9 @ 4550	37.5	4.1	17.7 @ 4550	37.5	4.1	17.7 @ 4550	
53	100%	28.2 @ 4600	37.5	4.0	17.6 @ 4600	37.5	4.0	17.6 @ 4600	
54	100%	28.5 @ 4650	37.5	3.9	17.5 @ 4650	37.5	3.9	17.5 @ 4650	
55	100%	28.8 @ 4700	37.5	3.8	17.4 @ 4700	37.5	3.8	17.4 @ 4700	
56	100%	29.1 @ 4750	37.5	3.7	17.3 @ 4750	37.5	3.7	17.3 @ 4750	
57	100%	29.4 @ 4800	37.5	3.6	17.2 @ 4800	37.5	3.6	17.2 @ 4800	
58	100%	29.7 @ 4850	37.5	3.5	17.1 @ 4850	37.5	3.5	17.1 @ 4850	
59	100%	30.0 @ 4900	37.5	3.4	17.0 @ 4900	37.5	3.4	17.0 @ 4900	
60	100%	30.3 @ 4950	37.5	3.3	16.9 @ 4950	37.5	3.3	16.9 @ 4950	
61	100%	30.6 @ 5000	37.5	3.2	16.8 @ 5000	37.5	3.2	16.8 @ 5000	
62	100%	30.9 @ 5050	37.5	3.1	16.7 @ 5050	37.5	3.1	16.7 @ 5050	
63	100%	31.2 @ 5100	37.5	3.0	16.6 @ 5100	37.5	3.0	16.6 @ 5100	
64	100%	31.5 @ 5150	37.5	2.9	16.5 @ 5150	37.5	2.9	16.5 @ 5150	
65	100%	31.8 @ 5200	37.5	2.8	16.4 @ 5200	37.5	2.8	16.4 @ 5200	
66	100%	32.1 @ 5250	37.5	2.7	16.3 @ 5250	37.5	2.7	16.3 @ 5250	
67	100%	32.4 @ 5300	37.5	2.6	16.2 @ 5300	37.5	2.6	16.2 @ 5300	
68	100%	32.7 @ 5350	37.5	2.5	16.1 @ 5350	37.5	2.5	16.1 @ 5350	
69	100%	33.0 @ 5400	37.5	2.4	16.0 @ 5400	37.5	2.4	16.0 @ 5400	
70	100%	33.3 @ 5450	37.5	2.3	15.9 @ 5450	37.5	2.3	15.9 @ 5450	
71	100%	33.6 @ 5500	37.5	2.2	15.8 @ 5500	37.5	2.2	15.8 @ 5500	
72	100%	33.9 @ 5550	37.5	2.1	15.7 @ 5550	37.5	2.1	15.7 @ 5550	
73	100%	34.2 @ 5600	37.5	2.0	15.6 @ 5600	37.5	2.0	15.6 @ 5600	
74	100%	34.5 @ 5650	37.5	1.9	15.5 @ 5650	37.5	1.9	15.5 @ 5650	
75	100%	34.8 @ 5700	37.5	1.8	15.4 @ 5700	37.5	1.8	15.4 @ 5700	
76	100%	35.1 @ 5750	37.5	1.7	15.3 @ 5750	37.5	1.7	15.3 @ 5750	
77	100%	35.4 @ 5800	37.5	1.6	15.2 @ 5800	37.5	1.6	15.2 @ 5800	
78	100%	35.7 @ 5850	37.5	1.5	15.1 @ 5850	37.5	1.5	15.1 @ 5850	
79	100%	36.0 @ 5900	37.5	1.4	15.0 @ 5900	37.5	1.4	15.0 @ 5900	
80	100%	36.3 @ 5950	37.5	1.3	14.9 @ 5950	37.5	1.3	14.9 @ 5950	
81	100%	36.6 @ 6000	37.5	1.2	14.8 @ 6000	37.5	1.2	14.8 @ 6000	
82	100%	36.9 @ 6050	37.5	1.1	14.7 @ 6050	37.5	1.1	14.7 @ 6050	
83	100%	37.2 @ 6100	37.5	1.0	14.6 @ 6100	37.5	1.0	14.6 @ 6100	
84	100%	37.5 @ 6150	37.5	0.9	14.5 @ 6150	37.5	0.9	14.5 @ 6150	
85	100%	37.8 @ 6200	37.5	0.8	14.4 @ 6200	37.5	0.8	14.4 @ 6200	
86	100%	38.1 @ 6250	37.5	0.7	14.3 @ 6250	37.5	0.7	14.3 @ 6250	
87	100%	38.4 @ 6300	37.5	0.6	14.2 @ 6300	37.5	0.6	14.2 @ 6300	
88	100%	38.7 @ 6350	37.5	0.5	14.1 @ 6350	37.5	0.5	14.1 @ 6350	
89	100%	39.0 @ 6400	37.5	0.4	14.0 @ 6400	37.5	0.4	14.0 @ 6400	
90	100%	39.3 @ 6450	37.5	0.3	13.9 @ 6450	37.5	0.3	13.9 @ 6450	
91	100%	39.6 @ 6500	37.5	0.2	13.8 @ 6500	37.5	0.2	13.8 @ 6500	
92	100%	39.9 @ 6550	37.5	0.1	13.7 @ 6550	37.5	0.1	13.7 @ 6550	
93	100%	40.2 @ 6600	37.5	0.0	13.6 @ 6600	37.5	0.0	13.6 @ 6600	
94	100%	40.5 @ 6650	37.5	0.0	13.5 @ 6650	37.5	0.0	13.5 @ 6650	
95	100%	40.8 @ 6700	37.5	0.0	13.4 @ 6700	37.5	0.0	13.4 @ 6700	
96	100%	41.1 @ 6750	37.5	0.0	13.3 @ 6750	37.5	0.0	13.3 @ 6750	
97	100%	41.4 @ 6800	37.5	0.0	13.2 @ 6800	37.5	0.0	13.2 @ 6800	
98	100%	41.7 @ 6850	37.5	0.0	13.1 @ 6850	37.5	0.0	13.1 @ 6850	
99	100%	42.0 @ 6900	37.5	0.0	13.0 @ 6900	37.5	0.0	13.0 @ 6900	
100	100%	42.3 @ 6950	37.5	0.0	12.9 @ 6950	37.5	0.0	12.9 @ 6950	