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	ENGINE FAMILY	DISPLACEMENT (liters)	FUEL TYPE	USEFUL LIFE (hours)
2009	9HZXL.413C41	0.413	Diesel	3000
	FEATURES & EMISSION	The second se	TYPICAL EQUIPMENT	
	Direct Diesel Inje	ction	Pump, Generator Set, Other I	ndustrial 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	EMISSION			E	EXHAUST (g/kw-h	nr)		OF	PACITY (%	6)
POWER CLASS	STANDARD CATEGORY		HC	NOx	NMHC+NOx	со	PM	ACCEL	LUG	PEAK
kW < 8	Tier 4	STD	N/A	N/A	7.5	8.0	0.80	N/A	N/A	N/A
		CERT			6.5	5.0	0.47			1944

BE IT FURTHER RESOLVED: That certification to the standards in 13 CCR 2423(b)(1)(A) -Table 1b listed above has been permitted pursuant to Endnote 2 of the same table.

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

12th day of December 2008.

Annette Hebert, Chief Mobile Source Operations Division

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Engine Model Summary Template

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(Park) (Park) (Park) (Park)
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(inter-state)	1 Engine Code	I Engine Code II Engine Model	NAN BARD	4.7 kei Plate Item A tone (2 peak HP Ott tilekei Lokio)	57 kei Ruth (Dis A f) (E) pean in P (Enr dinnen onki)	6 Tunger & R.F.M.	Hand Hand	0.5 ex 1 flate 9. Beautur Coreau Oxin 0 @peak trup in Coreau Oxin 0 @peak trup in Core 2002 19000	9 Destroy Cortest Device Arr SAE 7920
11 pt 4 m	NOR.	1043.602	7,262750	20.5	3.1	13,8@2750	20.5	1.5	TQQ
1. 101 L	44140	275 12414	7,1@2700	20.5	. e	0012@0.E1	20,8	3,1	
4- 1 al 1141	51/4	202 16-21	7.060050	20.5	40	13.9 (00000	20.5	3.0	-
	10%	2/8 (1911	6.892500	20.5	3,0	13,6,02600	20.5	0°C	-
C. L. BICKAL	N.010	1141 5.2	6.7 (22550	20.5	2.9	13.8@2560	20.5	2,9	
-4 L 112641	ten	1041 542	E.7 (§2500	20.5	2.9	14,1@2500	20.6	2.0	
181,101,10	40.00	10415/2	0.000-400	20,5	2.8	14,1@2460	8.02	0.7	
Q 12 1401 41	Apres 1	1041 SC	6.452.453	20.5	2.7	14,1@2400	202	2.7	_
1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	Area .	1041 50	0.3@2350	20,5	2,7	14,160350	202	2.7	
	ture.	275 13-11	6.2 @2300	\$'0Z	2.0	14.1022300	97.02	B.2	
10 2 40 641	10.4	229 19431	0.062250	20,5	2.10	14,1 @2250	30.6	2.6	
12 4 10 Lt	1020	10-41 3.0	5,9@2200	20.6	2.5	14.102200	\$102	2.5	
17 17 - 7	bea.	216 14-01	6.8@2150	20,5	2,6	14,1 @2150	20,55	2.5	-
12 2 415C41	101-00	225 11-31	5,8@2100	20.5	2.4	14.1622100	20.55	2.4	
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-C. L. 3116.48-	172	225 11:01	5,4@0000	20.5	2.3	14,1(02000	9'02	2.3	
and an and an	No.	104AC	5.2(23300	2.01	9.6	11.1@3300	10,5	3.0	
11 11 11 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	Nin	1 Lot 1 C	5.2(60250	2.01	0.0	11.3 (0/3260	10.5	8.0	
	817.6	tranc	5.2 @3200	2,01	3,5	11,5@3200	201	3.5	
	10100	11-211	5,2@3150	10.5	9'E	11.7 003 150	2,01	P.C	-
	144	10-110	5.2@3100	10,5	3,4	11,9@3100	201	3.4	
	Taken	10-41C	5.2@3050	10.6	3.3	12.0 003050	2,01	5.5	
	NON	10410	0.2@3000	20,0	3,3	12,2(\$3000	20.0	2.5	
-	14.14	That	5.1620950	20.0	3.3	12.2.@2050	0'02	C*C	
	New York	104410	6.1822800	20,0	3,2	12.4@2000	20.02	32	
	ANY A	10-410	0.06826005	20.0	3.2	12,4@2850	20.0	2,2	
	·····4	10415	5,0002800	20.0	1.1	12.15(\$2500	20.02	3,7	-
	1	215-31	4.902750	20.0	1,1	12.8@2750	20.02	3.1	1
	1.1	10-410	4.8(62700	20.0	3.0	12 8/82700	20.0	3.0	

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Engine Model Summary Template

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alternal -	hula.	ID41C	4.8@2050	20.02	9.0	12,9(\$2860)	20.0	3.0	DbL
1-1-1	him	10-410	4.7 62800	20.0	2.9	12.56(2500)	0.05	2.0	-
1.1	11/10	11-arc	4.060000	0 CE	2,8	12,7 (\$2560	0102	2.8	
	Ph.142	10-31C	4,8 @2500	20,0	2.0	13.0.02500	20.0	2,8	
- 41-(41)	ALC:N	219411	4.5.02460	20.0	2.7	13,0@2450	0'02	2.7	
1420214	1444	10410	4,4@2400	20.0.	2.7	13.0602400	0'02	2.7	-
· atreat	414	10415	4.3.02390	20.0	2,6	12.0002350	0.05	2.0	
16241	Philip.	1D41C	4.2@2300	20,0	2.6	12.9882300	20,02	2.6	
Track!	Privile.	318-015	4.102250	20.0	2,5	12,9,002250	0'02	2.5	
-trafferi	141754	#D-44C	4,1@2200	20,0.	2.5	13 2002200	0'0t	2.5	
	1110	Thett	4,0602150	20,0	2,4	13.1@2150	20.02	2.4	
+	11/22	10-11	3.0.002100	002	5.3	13.182100	20,0	2,3	
	1.2	That?	3,8@2050	20,0	2,3	13.1 (()2000	20.02	2,3	
	12	tour T-S	0,00000 (.c.	20.0	2.2	13,1@2000	20,0	2.2	