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)				
2010	AHZXL3.43C42	3.432	Diesel	8000				
	FEATURES & EMISSION		TYPICAL EQUIPMENT APPLICATION					
Mechanica	al Direct Injection, Exhau	ist Gas Recirculation	Pump, Generation 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	EMISSION			E	EXHAUST (g/kw-l	OPACITY (%)				
POWER CLASS	STANDARD CATEGORY		НС	NOx	NMHC+NOx	со	PM	ACCEL	LUG	PEAK
37 <u><</u> kW < 56	Tier 4 interim	STD	N/A	N/A	4.7	5.0	0.30	N/A	N/A	N/A
		CERT			4.6	2.1	0.11			

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

_ day of February 2010.

Annette Hebert, Chief Mobile Source Operations Division

z to 1 sprg Attachment.

0105/85/1 ES# U-R-034-0234

Nonroad CI Motorentabrik Hatz

<u>engine Model Summary Template</u>

	DEPILEAR 199 SONNO DI		pides	(coold vale)	(br diese is only)	(pi giste joi i)	(300 0 3 A C)	leboM enigna.S :		Vinner enigna
IJ	Rechanical	6,8	9'01-	148@5300	6,8	9'61	63'8@S300	24M4	A\N	243C43.43C42
	ł	2,8	9'01-	148 @3220	2,8	46'2	0922@+,58	24M42	A\N	SP364.3.43C42
	1	۴,8	9'85	148 @5200	۴,8	5,012	0022@2,18	2PM4	A\N	AHZXL3.43C42
		6'9	9'85	091200261	6'9	9,94	021200,08	2010	A\N	AHZXL3.43 C42
	1	8'9	9'812	001200821	8'9	5,012	0012(200,68	ሪኦሣኦ	A\N	2P36P.61XZHA
	1	۲'9	9'81	148 @ 3020	Ľ9	9' 0 1⁄2	0902098,78	24M4	ANN	VHXXF3 43C45
		<u> </u>	9°87	0002@9 0 1	<u>6,5</u>	9'0 0	0002@8,82	24M42	A\N	2P36P.6JXZHA
	1	2'9	0'85	146@1820	2'3	0'01-	22'3@1820	2 6 M42	A\N	CHZXL3.43C42
	1	2'9	0'81-	120@1800	6,2	0,94	24'1@1800	2 4 M42	A\N	24364 61X2HA
	1	1'9	0'61	120@1820		0,612	52,9@1850	24M42	A\N	24364.61XZHA
		6'7	0,94	151@1800	6't	0,01	0081@7,18	24M42	A\N	CHZXL3.43C42
		8'9	- 42'0	133@5300	8,7	42.0	00EZØ0'85	24M4	A\N	CHZXL3.43C42
		6,8	9°0Þ	143@5300	6,9	5'85	82,4@2300	ZZPMP	A\N	SP36P.EJXZHA
		2,8	9°617	143@5250	2,8	5'012	0922001,18	Z2PMP	∀/N	C43 43 C45
		1'9	9'0t	143@5500	۴,8	5'85	00727206'69	Z224M4	∀/N	SP3EP.EJXZHA
		6'9	9'8 0	143@5120	6'9	6,0p	0612007,88	Z2PMP	A\N	CF3.43C42
		8'9	9'0 1	001200441	8'9	9'01-	0012@9,78	ZSPMP	A\N	SP36P.6JXZHA
		19		142@3020	 	9'85	09020+'99	224M4	A\N	CP3CP. CJXZHA
		<u>6</u> ,6	5'0t/	148@\$2000	C,C	9'81	0002099,55	ZZPMP	A\N	ZPJEP.EJXZHA
										ZPJEP EJXZHA
										CHZXL3.43C42
										ZPJEP.EJXZHV
										ZPJEP ETXZHV
		8'9		130 @\$300	8,5	0'9+	0062207,88	22484	W/N	24364 67XZHV
		6,3	0'61-	138@3300	5,8	0'81	60,4@2300	47450	A\N	CP3CP.C.IXZHA
			6'3 2'8 2'1 2'2 2'3 2	46'0 6'3 46'0 2'8 46'0 2'3 46'0 2'3 46'0 2'2 46'0 2'3 46'2 2'3	138億5300 49'0 9'3 130億5300 49'0 9'3 130億5300 49'0 9'3 141億1800 49'0 9'3 141億1800 49'0 9'3 141億1800 49'0 9'3 141億1800 49'0 9'3 145億500 49'0 9'3 145億500 49'0 9'3 143億5100 49'2 9'3 143億5100 49'0 9'3 143億5100 49'2 9'3 143億5100 49'2 9'3 143億5100 49'2 9'3 143億5100 49'2 9'3 <	6.2 146@2250 49.6 6.2 6.3 136@2200 49.0 6.3 6.4 147@2160 49.0 6.3 6.3 136@2300 49.0 6.3 6.4 147@1800 49.0 6.3 6.5 140@2200 49.0 6.3 6.6 147@1800 49.0 6.3 6.7 146@1800 49.0 6.3 6.8 143@2100 49.0 6.3 6.9 144@2100 49.0 6.3 6.9 144@2100 49.0 6.3 6.9 144@2100 49.5 6.1 6.1 143@2100 49.0 6.3 6.3 143@2100 49.5 6.3 6.4 146@2000 49.0 6.3 6.3 143@2100 49.5 6.4 6.4 147@1800 49.0 6.3 6.5 146@2300 49.0 6.3 6.4 147@100 49.5 6.4 6.4 146@2100 49.5 6.3	여러, 은 6,3 138@2200 49,0 6,3 여러, 5 6,1 146@2200 49,0 6,3 여러, 0 5,3 138@2300 49,0 5,3 여러, 0 5,1 147@180 49,0 5,3 여러, 0 5,1 147@180 49,0 5,3 여러, 0 5,2 147@180 49,0 5,3 여러, 0 5,3 146@2100 49,0 5,3 여러, 5 5,5 146@2100 49,0 5,3 여러, 5 5,3 146@2100 49,0 5,3 여러, 5 5,3 146@2100 49,0 5,3 49,5 5,3 146@2100 49,5 5,3 49,5 5,3 146@2100 49,5 5,3 49,5 5,3 146@2100 49,5 5,3 49,5 5,3 146@2100 49,5 5,3 49,5 5,3 146@2100 49,5 5,3 49,5 5,3 146	81,2@2200 49,5 6,3 143@2250 49,5 6,3 81,2@2200 49,0 6,3 143@2250 49,0 6,3 66,4@2300 49,0 6,3 139@2300 49,0 6,3 66,4@2300 49,0 5,3 139@2300 49,0 5,3 61,6@1800 49,0 5,3 147@1800 49,0 5,3 65,6@1800 49,0 5,3 143@2300 49,0 5,3 65,6@1800 49,0 5,3 143@2300 49,0 5,3 61,6@1800 49,0 5,3 143@2300 49,0 5,3 61,6@1800 49,0 5,3 143@2300 49,0 5,3 61,6@1800 49,0 5,3 143@2300 49,0 5,3 61,6@1800 49,0 5,3 143@2300 49,0 5,3 5,3 61,0@1800 49,0 5,3 143@2300 49,0 5,3 5,3 5,3 61,0@1800 49,0 5,3 143@2300 49,0 5,3 5,3 5,3 5,3 5,3 5,3	41/43C 81/4682500 46/0 81/3 138/85200 46/0 81/3 41/43C 81/46800 46/0 81/3 138/85200 46/0 81/3 41/43C 81/46800 46/0 81/3 138/85200 46/0 81/3 41/442 81/46800 46/0 81/3 140/8610 46/0 81/3 41/442 81/46800 46/0 81/3 140/86100 46/0 81/3 41/442 81/46800 46/0 81/3 140/86100 46/0 81/3 41/442 81/46800 46/0 81/3 140/88000 46/2 81/3 140/88000 81/3 41/442 81/4800 46/0 81/3 140/88000 46/2 81/3 140/8800 81/3 140/8800 81/3 140/8800 14/3 140/88000 14/3 140/88000 14/3 14/3 140/88000 14/3 14/3 14/3 14/3 14/3 14/3 14/3 14/3 14/3 14/3 14/3 14/3 14/3 14/3 14/3 14/3 1/3 1/3 1/3<	N/N A/MA2 55.9 (492) 6.9 6.9 7.9 6.9 6.9 7.9 6.9 7.9

Motorenfabrik Hatz Nonroad CI

Attachment

page 2 of 2

E0#U-R-034-0234

1/28/2010

Engine Model Summary Template

Engine Family	1.Engine Code	2.Engine Model	3.8HP@RPM (SAEGross)	4.Fuel Rate: mm#stroke @ peak HP (for diesel on ly)	5.Fiel Rate: (DX/11) (2) peak HP (Drdissels only)	6.Torque @ RPM (SEA Gross)	7.Fiel Rate: mm#tole@peak torqie	8.Ftel flate: (DF/1)@peak forq	9.8mission Control re Device Per SAE J 1930	1	
AHZXL3.43C42	N/A	4L42C	58,2@2200	49,0	6,0	139@2200	49,0	6 ,0	Mechanic	J DI	EGK
AHZXL3.43C42	N/A	4L42C	57,0@2150	49,0	5,9	139@2150	49,0	5,9	1.00000000		0.
AHZXL3.43C42	N/A	4L42C	55,9@2100	49 ,0	5,7	140@2100	49,0	5,7			
AHZXL3.43C42	N/A	4L42C	54,8@2050	49,0	5,8	141@2050	49,0	5,8			
AHZXL3.43C42	N/A	4L42C	53,6@2000	49,0	5,5	141@2000	49,0	5,5			
AHZXL3.43C42	N/A	4L42C	52,5@1950	48,0	5,2	142@1950	48,0	5,2			
AHZXL3.43C42	N/A	4L42C	51,3@1900	48,0	5,1	142@1900	48,0	5,1			
AHZXL3.43C42	N/A	4L42C	50,3@1850	48,0	5 ,0	143@1850	48,0	5,0		,	
AHZXL3.43C42	N/A	4L42C	54,5@2300	43,5	5,6	125@2300	43,5	5,6	N	r .	