Lamenta LINTENDED I

Pursuant to the authority vested in the Air Resources Board by Health and Safety Code Division 26, Part 5, Chapter 2; and pursuant to the authority vested in the undersigned by Health and Safety Code Sections 39515 and 39516 and Executive Order G-02-003;

IT IS ORDERED AND RESOLVED: The engine and emission control systems produced by the manufacturer are certified as described below for use in on-road motor vehicles with a manufacturer's GVWR over 14,000 pounds. Production engines shall be in all material respects the same as those for which certification is granted.

MODEL YEAR	ENGINE FAN	MLY	ENGINE SIZES (L)	FUEL TYPE 1	STANDARDS & TEST	SERVICE	ECS & SPECIAL FEATURES 3	DIAGNOSTIC 6
				D:	PROCEDURE	CLASS 2	DDI, TC, CAC, ECM, EGR, OC,	EMD
2009	9CEXH0912	XAP	14.9	Diesel	Diesel	HHDD	SCR, PTOX	
	ENGINE'S IDLE ONS CONTROL			ADDI	TIONAL IDLE EN	IISSIONS COI	NTROL 5	
	30g				N	/A		
ENGINE (L)			ENGINE MODE	LS / CODES (ra	ted power, in	hp)	
14.9				See attachmen	t for engine me	odels and ra	atings	
L=liter; hp	=horsepower; kw =k NG=compressed/liqu	ilowatt; hi iefied natu	=hour; ral gas; LPG=liquefi		anol fuel; MF=mult		R 86.abc=Title 40, Code of Federal Regulations =bi fuel; DF=dual fuel; FF=flexible fuel;	, Section 86.abc;
up catalyst TBI=throttle super charge control mod	; DPF=diesel particue body fuel injection; ger; CAC=charge ai dule; EM=engine mo	late filter; SFI/MFI= r cooler; E dification;	PTOX=periodic trap sequential/multi port GR / EGR-C=exhau 2 (prefix)=parallel;	oxidizer; HO2S/O2S=heated/oxy fuel injection; DGI=direct gasolin	gen sensor; HAF: e injection; GCAR PAIR/AIR=pulsed	S/AFS=heated/a B=gaseous car //secondary air	ctive catalytic reduction – urea / – ammonia; W air-fuel-ratio sensor (a.k.a., universal or linear or buretor; IDI/DDI=indirect/direct diesel injection; injection; SPL=smoke puff limiter; ECM/PCM=	kygen sensor); TC/SC=turbo/

ESS=engine shutdown system (per 13 CCR 1956.8(a)(6)(A)(1); 30g=30 g/hr NOx (per 13 CCR 1956.8(a)(6)(C); APS = internal combustion euxiliary power system; ALT=alternative method (per 13 CCR 1956.8(a)(6)(D); Exempt=exempted per 13 CCR 1956.8(a)(6)(B) or for CNG/LNG fuel systems; N/A=not applicable (e.g., Otto engines and vehicles); EMD=engine manufacturer diagnostic system (13 CCR 1971.); OBD=on-board diagnostic system (13 CCR 1971.1);

Following are: 1) the FTP exhaust emission standards, or family emission limit(s) as applicable, under 13 CCR 1956.8; 2) the EURO and NTE limits under the applicable California exhaust emission standards and test procedures for heavy-duty diesel engines and vehicles (Test Procedures); and 3) the corresponding certification levels, for this engine family. "Diesel" CO, EURO and NTE certification compliance may have been demonstrated by the manufacturer as provided under the applicable Test Procedures in lieu of testing. (For flexible- and dual-fueled engines, the CERT values in brackets [] are those when tested on conventional test fuel. For multi-fueled engines, the STD and CERT values for default operation permitted in 13 CCR 1956.8 are in parentheses.).

in	NM	HC	N	Ox	NMH	C+NOx	0	:0	F	M	Н	НО
g/bhp-hr	FTP	EURO	FTP	EURO	FTP	EURO	FTP	EURO	FTP	EURO	FTP	EURO
STD	0.14	0.14	*	*	*	*	15.5	15.5	0.01	0.01	*	*
FEL	*	*	0.35	0.35	0.35	0.35	*	*	*	*	*	*
CERT	0.001	0.00	0.21	0.16	0.21	0.16	0.04	0.0	0.01	0.00	*	*
NTE	0.2	21	0.	.52	0	.52	19	9.4	0.	02		*

4 g/bhp-hr=grams per brake horsepower-hour; FTP=Federal Test Procedure; EURO=Euro III European Steady-State Cycle, including RMCSET=ram mode cycle supplemental emissions testing; NTE=Not-to-Exceed; STD=standard or emission test cap; FEL=family emission limit; CERT=certification level; NMHC/HC=non-methane/hydrocarbon; NOx=oxides of nitrogen; CO=carbon monoxide; PM=particulate matter; HCHO=formaldehyde; (Rev.: 2007-02-26)

BE IT FURTHER RESOLVED: Certification to the FEL(s) listed above, as applicable, is subject to the following terms, limitations and conditions. The FEL(s) is the emission level declared by the manufacturer and serves in lieu of an emission standard for certification purposes in any averaging, banking, or trading (ABT) programs. It will be used for determining compliance of any engine in this family and compliance with such ABT programs.

BE IT FURTHER RESOLVED: Except in vehicle applications exempted per 13 CCR 1956.8(a)(6)(B), engines in this engine family certified under 13 CCR 1956.8(a)(6)(C) [30 g/hr NOx] and section 35.B.4 of the incorporated "California Exhaust Emissions Standards and Test Procedures for 2004 and Subsequent Model Heavy-Duty Diesel Engines and Vehicles" (HDDE Test Procedures) adopted Dec. 12, 2002, as last amended Sep. 1, 2006, shall be provided with an approved "Certified Clean Idle" label that shall be affixed to the vehicle into which the engine is installed.

BE IT FURTHER RESOLVED: The listed engine models have been certified to the split engine family standards under 13 CCR 1956.8(b) [diesel engines] or 13 CCR 1956.8(d) [Otto engines] and the incorporated 40 CFR 86.007-15(m)(9).

BE IT FURTHER RESOLVED: For the listed engine models the manufacturer has submitted the materials to demonstrate certification compliance with 13 CCR 1965 (emission control labels) and 13 CCR 2035 et seq. (emission control warranty).

Engines certified under this Executive Order must conform to all applicable California emission regulations. The Bureau of Automotive Repair will be notified by copy of this Executive Order. 19世

Executed at El Monte, California on this

day of November 2009.

Annette Hebert, Chief Mobile Source Operations Division

Engine Model Summary Template

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							to rabed	7	=	11/19/19
mlly	1.Engine Code	Engine Family 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: 9.Emission Control (bs/hr)@peak torqueDevice Per SAE J1930	9.Emission Control	, lo.
XAP	9CEXH0912XAP 3376;FR10812 ISX15 450ST	ISX15 450ST	407@1977	231	154	1750@1200	333	135	SCRC, PTOX	 X
2XAP	9CEXH0912XAP 3376;FR10811 ISX15 450ST	ISX15 450ST	407@1977	231	154	1650@1200	312	126	SCRC, PTO	×,
2XAP	9CEXH0912XAP 3376;FR10809	ISX15 450	407@1977	231	154	1650@1200	312	126	schc, PTØX	×
2XAP	9CEXH0912XAP 3376;FR10808	ISX15 450	407@1977	231	154	1550@1200	291	118	sckc, Pyox	×,
2XAP	9CEXH0912XAP 3376;FR10805 ISX15425ST	ISX15 425ST	384@1977	231	154	1750@1200	333	135	scrc, prox	X
2XAP	9CEXH0912XAP 3376;FR10804 ISX15 425ST	ISX15 425ST	384@1977	231	154	1650@1200	312	126	scr¢,/btox,	×,
2XAP	9CEXH0912XAP 3376;FR10803	ISX15 425	384@1977	231	154	1650@1200	312	126	scRd, Ртох,	×
2XAP	9CEXH0912XAP 3376;FR10802 ISX15 400ST	ISX15 400ST	362@1977	212	141	1750@1200	333	135	scpC\PTOX,	
9CEXH0912XAP	3376;FR10801 ISX15 400ST	ISX15 400ST	362@1977	212	141	1650@1200	312	126	sckc, prox	, X
2XAP	9CEXH0912XAP 3376;FR10800	ISX15 400	362@1977	212	141	1450@1200	272	110	scrc, ptox,	, X
2XAP	9CEXH0912XAP 3376;FR10824	ISX15 435V	404@1977	229	153	1450@1200	272	110	SCRC, PYOX	