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	ENGINE FAMI	LY	ENGINE	FUEL TYPE 1	STANDARDS & TEST	INTENDED SERVICE	ECS & SPECIAL FEATURES 3	DIAGNOSTIC 6						
YEAR			SIZES (L)		PROCEDURE	CLASS	ECM, PTOX, EGR, SCR-U, OC,							
2014	EPCRH12.9N	<i>I</i> 01	12.9	Diesel	Diesel	HHDD	DDI, TC, CAC	OBD(\$)						
	ENGINE'S IDLE			AI	DDITIONAL IDLE EN	IISSIONS COI	NTROL 5	Transact T						
Will pro-	30g	DOMEST	to the father like	Taken and land	N	/A ·	ulturated and Jahra meruman							
ENGINE (L	L)			ENGINE MO	DELS / CODES (ra	ted power, in	hp)							
12.9		See attachment for engine models and ratings												
*		*												
*														
*		-		1	*									
*					*									
L=liter; hp= 1 CNG/LN 2 L/M/H H 3 ECS=en up catalyst; TBI=throttle super charg control mod 5 ESS=en	=horsepower; kw=kil kG=compressed/lique IDD=light/medium/he mission control syster DPF=diesel particula body fuel injection; per; CAC=charge air fulle; EM=engine mod ggine shutdown syster	owatt; hr= fied natura avy heavy n; TWC/O ate filter; I SFI/MFI=s cooler; Ec dification; m (per 13	-hour; al gas; LPG=liquefie -duty diesel; UB=urb OC=three-way/oxidizir PTOX=periodic trap o sequential/multi port fi GR / EGR-C=exhausi 2 (prefix)=parallel; ( CCR 1956.8(a)(6)(A)	d petroleum gas; E85=85% C pan bus; HDO=heavy duty C noxidizer; HO25/O25=heatec uel injection; DGI=direct gas t gas recirculation / cooled E 20 (suffix)=in series; (1); 30g=30 g/hr NOx (per 1	ethanol fuel; MF=muli otto; rrption catalyst; SCR-L l/oxygen sensor; HAF soline injection; GCAR GR; PAIR/AIR=pulser 13 CCR 1956.8(a)(6)(C	ti fuel a.k.a. BF  J / SCR-N=select S/AFS=heated/a B=gaseous car d/secondary air  ); APS =interna	R 86.abc=Title 40, Code of Federal Regulation =bi fuel; DF=dual fuel; FF=flexible fuel; stive catalytic reduction – urea / ammonia; W air-fuel-ratio sensor (a.k.a., universal or linear obvertor; IDI/DDI=indirect/direct diesel injection injection; SPL=smoke puff limiter; ECM/PCM= al combustion auxiliary power system; ALT=al (e.g., Otto engines and vehicles);	/U (prefix) =warm- oxygen sensor); ; TC/SC=turbo/ =engine/powertrain						
				1); OBD(F) / (P) / (\$)=full / p										

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 g/bhp-hr	NMHC		NOx		NMHC+NOx		CO		PM		нсно	
	FTP	SET	FTP	SET	FTP	SET	FTP	SET	FTP	SET	FTP	SET
STD	0.14	0.14	0.20	0.20	*	*	15.5	15.5	0.01	0.01	*	*
FEL	*	*	*	*	*	*	*	*	*	*	*	*
CERT	0.003	0.000	0.17	0.02	*	*	1.4	0.01	0.004	0.004	*	*
NTE	0.21		0.30		*		19.4		0.02		*	

4 g/bhp-hr=grams per brake horsepower-hour; FTP=Federal Test Procedure; EURO=Euro III European Steady-State Cycle, including SET=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 Apr. 18, 2013, 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: For the listed engine models the manufacturer has submitted the materials to demonstrate certification compliance with 13 CCR 1965 (emission control labels), 13 CCR 1971.1 (on-board diagnostic, full or partial compliance) and 13 CCR 2035 et seg. (emission control warranty).

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BE IT FURTHER RESOLVED: The listed engine models are conditionally certified in accordance with 13 CCR Section 1971.1(k) (deficiency and fines provisions for certification of malfunction and diagnostic system) because the heavy-duty on-board diagnostic (HD OBD) system of the listed engine models has been determined to have fifteen deficiencies. The listed engine models are approved subject to the manufacturer paying a fine of \$450 per engine for the third through fifteenth deficiencies in the listed engine family that is produced and delivered for sale in California. On a quarterly basis, the manufacturer shall submit to the Air Resources Board reports of the number of engines produced and delivered for sale in California and pay the full fine owed for that quarter pursuant to this conditional certification. Payment shall be made payable to the State Treasurer for deposit in the Air Pollution Control Fund no later than thirty (30) days after the end of each calendar quarter during the 2014 model-year production period. Failure to pay the quarterly fine, in full, in the time provided, may be cause for the Executive Officer to rescind this conditional certification, effective from the start of the quarter in question, in which case all engines covered under this conditional certification for that quarter and all future quarters would be deemed uncertified and subject to a civil penalty of up to \$5000 per engine pursuant to HSC Section 43154.

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.

Executed at El Monte, California on this

\_ day of December 2013.

Erik White, Chief

Mobile Source Operations Division

12-27-2013

A Hachmens: Page 1 of 1 FO#: A-384-0005

## **Engine Model Summary Template**

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		9.Emission Control eDevic <b>ę</b> Per SAE J1930
EPCRH12.9M01	500 hp	MX-13 375 V	500@1700 rpm	n 291.8	186.8	1850@1360	344.4	220.5	EC / DOC /
EPCRH12.9M01	485 hp	MX-13 360 V	485@1700	279.5	178.9	1650@1425	308.5	197.5	EC DOC //
EPCRH12.9M01	455 hp MT	MX-13 340 V	455@1700	264.2	169.1	1750@1264	322.4	206.4	EC/QOC/
EPCRH12.9M01	455 hp	MX-13 340 V	455@1700	264.3	169.2	1650@1425	308.6	197.6	EC/DOC/
EPCRH12.9M01	430 hp MT	MX-13 320 V	430@1700	249.0	159.4	1750@1264	317.8	203.4	EC 1,000 1
EPCRH12.9M01	430 hp	MX-13 320 V	430@1700	248.9	159.3	1550@1425	288.8	184.9	EQ/DOC
EPCRH12.9M01	405 hp MT	MX-13 303 V	405@1700	236.5	151.4	1750@1163	321.9	206.1	FC/DOC/
EPCRH12.9M01	405 hp	MX-13 303 V	405@1700	236.6	151.5	1450@1430	269.1	172.3	EC / DOC /
EPCRH12.9M01	380 hp	MX-13 280 V	380@1700	220.0	140.8	1450@1250	263.5	168.7	EC/DOC/

