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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 FAMILY 2009 9CEXH0661MAZ		ILY ENGINE SIZES (L)		FUEL TYPE 1	STANDARDS & TEST	INTENDED SERVICE	ECS & SPECIAL FEATURES 3	DIAGNOSTIC 6					
		MAZ	10.8	Diesel	PROCEDURE	CLASS T	DDI, TĆ, CAC, ECM, EGR, OC, PTOX	EMD					
PRIMARY	'ENGINE'S IDLE NS CONTROL			ADI	DITIONAL IDLE EN	IISSIONS CO	5						
	30g				· N	'A							
ENGINE (L)			ENGINE MOD	ELS / CODES (rai	ed power, in	hp)						
10.8		See attachment for engine models and ratings											
+					*								
*					*	-							
*					*								
CNG/LN CNG/LN L/M/H + ECS=er up catalyst; TBI=throttle super charg control mod ESS=er (per 13 CCI	NG=compressed/liquid NG=compressed/liquid ND=light/medium/he mission control syste. DPF=diesel particu body fuel injection; per; CAC=charge air fulle; EM=engine mo ignine shutdown syste R 1956.8(a)(6XD); E R 1956.8(a)(6XD);	owait; nra avy heavy n; TWC/0 ate filter; SFI/MFI=s cooler; E dification; m (per 13 xempt=ex	andur; al gas; LPG=liquefid duty dieset; UB=ur DC=three-way/oxidizi PTOX=periodic trap sequential/multi port GR / EGR-C=exhaus 2 (prefix)=perallet; CCR 1956.8(a)(6)(A tempted per 13 CCR	ad petroleum gas; E85=85% et ban bus; HDO=heavy duty Ottong catalyst; NAC=NOx adsorp oxidizer; HOZS/O2S=heated/o title linjection; DGI=direct gasotst gas recirculation / cooled EGI (2) (suffix)=in series; X11: 30a=30 g/hr NOx (ner 13	hanol fuel; MF=mult b; tion catalyst; SCR-U xygen sensor; HAFS ine injection; GCAR R; PAIR/AIR=pulsec CCR 1956.8(a)(6)(C G fuel systems; N/A	i fuel a.k.a. BF / SCR-N=select S/AFS=heated/a B=gaseous car //secondary air); APS =interna =not applicable	R 86.abc=Title 40, Code of Federal Regulations =bi fuel; DF=dual fuel; FF=flexible fuel; ctive catalytic reduction – urea / ammonia; W air-fuel-ratio sensor (a.k.a., universal or linear o buretor; IDI/DDI=Indirect/direct diesel injection; injection; SPL=smoke puff fimiter; ECM/PCM= al combustion auxiliary power system; ALT=aff (e.g., Otto engines and vehicles);	/U (prefix) =warm- xygen sensor); ; TC/SC=turbo/ :engine/powertrain					

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	EURO	FTP	EURO	FTP	EURO	FTP	EURO	FTP	EURO	FTP	EURO
STD	0.5	0.5	*	*	*	*	15.5	15.5	0.01	0.01	*	*
FEL	*	*	*	*	2.4	2.4	*	+	*		*	*
CERT	0.01	0.01	*	•	2.3	2.2	0.01	0.00	0.003	0.001	*	+
NTE	0.6			*	, 3	3.0	19	9.4	Ō.	02		+

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; N0x=oxides of nitrogen; CO=carbon monoxide; PM=particulate matter; HCHO=formaldehyde; (Rev.: 2007-02-25)

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.

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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.

Executed at El Monte, California on this

__ day of January 2009.

Annette Hebert, Chief

Mobile Source Operations Division

Engine Model Summary Template

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r - to a 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: (ibs/hr) @ peak HP (for diesels only)	6.Torque @ RPM (SEA Gross)	7.Fuel Rate: mm/stroke@peak torque	8.Fuel Rate: (lbs/hr)@peak torque	9.Emission Control Device Per SAE J1930
Engine Family GEXH0661MAZ	1531;FR20115	ISM 370	385@1800	228	139	1450@1200	282	114	/ PTOX, PCM,
CEXH0661MAZ	1531;FR20116	ISM 370	385@1800	228	. 139	1350@1200	267	108	PTOX, PCM,
CEXH0661MAZ	ele	ISM 350	365@1800	218	132	1350@1200	267	108	PTOX, PCM,
CEXH0661MAZ	RESIDENCE OF THE PROPERTY OF T	· ISM 350	365@1800	218	132	1250@1200	246	100	PTOX, PCM,
CEXH0661MAZ	ere in me x in in enterte Martenant enterte mental enterte me "Allen	ISM 350ST	385@1800	228	139	1450@1200	282	114	PTOX, PCM,
CEXH0661MAZ	ъ. р. р. чинения колоне то не политивние с мене	ISM 350ST	385@1800	228	139	1450@1200	282	114	PTOX, PCM,
CEXH0661MAZ	1531;FR20121	ISM 330	340@1800	207	126	1350@1200	267	108	PTOX, PCM,
CEXH0661MAZ	1531;FR20122	ISM 385V	385@1800	228	139	1450@1200	282	114	PTOX, PCM,
CEXH0661MAZ	1531:FR20123	ISM 385V	385@1800	228	139	1350@1200	267	108	PTOX, PCM,
CEXH0661MAZ	1531;FR20124	ISM 350V	350@1800	207	126	1450@1200	282	114	PTOX, PCM,
CEXH0661MAZ	1531;FR20125	ISM 350V	350@1800	207	126	1350@1200	267	108 /	PTOX, PCM,
CEXH0661MAZ	1531;FR20126	ISM 385	385@1800	228	139	1450@1200	282	114	PTOX, PCM,
CEXH0661MAZ	1531:FR20127	ISM 385	385@1800	228	139	1350@1200	267	108	PTOX, PCM,
CEXH0661MAZ		ISM 370	385@1800	228	139	1450@1200	282	114	PTOX, PCM,
CEXH0661MAZ	2729:FR20116	ISM 370	385@1800	228	139	1350@1200	267	108	PTOX, PCM,
CEXH0661MAZ	2729:FR20119	ISM 350	365@1800	218	132	1350@1200	267	108	PTOX, PCM,
CEXH0661MAZ	2729;FR20120	ISM 350	365@1800	218	132	1250@1200	246	100	PTOX, PCM,
CEXH0661MAZ	2729:FR20117	ISM 350ST	385@1800	228	139	1450@1200	282	114	PTOX, PCM,
CEXH0661MAZ	2729;FR20121	ISM 330	340@1800	207	126	1350@1200	267	108	PTOX, PCM,
CEXH0661MAZ	2729;FR20122	ISM 385V	385@1800	228	139	1450@1200	282	114	PTOX, PCM,
CEXH0661MAZ	2729:FR20123	ISM 385V	385@1800	228	139	1350@1200	267	108	PTOX, PCM,
CEXH0661MAZ		ISM 350V	350@1800	207	126	1450@1200	282	114	PTOX, PCM,
CEXH0661MAZ		ISM 350V	350@1800	207	126	1350@1200	267	108	PTOX, PCM,
CEXH0661MAZ		ISM 385	385@1800	228	139	1450@1200	282	114	PTOX, PCM,
CEXH0661MAZ		ISM 385	385@1800	228	139	1350@1200	267	108	PTOX, PCM,

DDI, TC, CAC, ECM, EGR, OC, PTCX