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		ENGINE SIZES (L)	FUEL TYPE	STANDARDS & TEST	INTENDED SERVICE	ECS & SPECIAL FEATURES 3	DIAGNOSTIC 6				
YEAR	ENGINE I AN	ENGINE PAINET			PROCEDURE	CLASS 2	DDI, TC, CAC, ECM, EGR, OC,	EMD				
2009	9CEXH0661	CEXH0661MAD 10.8		Diesel	Diesel	HHDD	PTOX					
	ENGINE'S IDLE		ADDITIONAL IDLE EMISSIONS CONTROL 5									
30g			N/A									
ENGINE (GINE (L) ENGINE MODELS / CODES (rated power, in hp)											
10.8		ISM 330ST / 3280;FR20207 (370), ISM 330 / 3280;FR20208 (340), ISM 310 / 3280;FR20209 (320), ISM 280 / 3280;FR20210 (320), ISM 320V / 3280; FR20211 (320)										
L=liter; hp 1 CNG/LI 2 L MARK I	⊫horsepower; kw≃k NG≖compressed/liqu HDD≕light/medium/h	ilowatt; h iefied natu eavv heav	r=hour; ıral gas; LPG=liquef v-dutv diesel: UB=u	ied petroleum gas; E85=85% eth uban bus; HDO=heavy duty Otto	nanol fuel; MF≖mul	ti fuel a.k.a. BF	R 86.abc=Title 40, Code of Federal Regulation =bi fuel; DF=dual fuel; FF=flexible fuel;					
3 ECS=e up catalyst TBI=throttl super char control mo	emission control syste :: DPF=diesel particle te body fuel injection; ger; CAC=charge a dule: EM=engine m	em; TWC/ ulate filter; SFVMFI= ir cooler; I odification.	OC=three-way/oxidia PTOX=periodic trap =sequential/multi por EGR / EGR-C=exhau = 2 (prefix)=parallel:	zing catalyst; NAC=NOx adsorpt o oxidizer; HO2S/O2S=heated/ox t fuel injection; DGI=direct gasoli ust gas recirculation / cooled EGF (2) (suffix)=in series;	ion catalyst; SCR-I rygen sensor; HAF ne injection; GCAF R: PAIR/AIR=pulse	S/AFS=healed/ IB=gaseous ca d/secondary air	ctive catalytic reduction – urea / – ammonia; M (air-fuel-ratio sensor (a k.a., universal or linear or rburetor; IDI/DDI=indirect/direct diesel injection injection; SPL=smoke puff limiter; ECM/PCM	oxygen sensor), n; TC/SC=turbo/ =engine/powertrain				
⁵ ESS=e (per 13 CC	ngine shutdown syst CR 1956.8(a)(6)(D);	em (per 1: Exempt=6	3 CCR 1956.8(a)(6)(exempted per 13 CCI	4\/1\-30n=30 o/hr NOx /ner 13 /	3 fuel systems; N/A	t=not applicable	nal combustion auxiliary power system; ALT=al e (e.g., Otto engines and vehicles);	ternative method				

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	0.14	0.14	*	*	*	*	15.5	15.5	0.01	0.01	*	*
FEL	*	*	1.95	1.95	1.9	1.9	*	*	*	*	*	*
CERT	0.01	0.01	1.61	1.51	1.62	1.52	0.27	0.04	0.005	0.003	*	*
NTE	0.21		2.44		2.4		19.4		0.02		*	

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; 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" tabel 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).

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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.

This Executive Order hereby supersedes Executive Order A-021-0483 dated February 3, 2009.

day of March 2009. Executed at El Monte, California on this

Annette Hebert, Chief Mobile Source Operations Division