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 SIZES (L)	FUEL TYPE 1	STANDARDS & TEST	INTENDED SERVICE	ECS & SPECIAL FEATURES 3	DIAGNOSTIC 6				
2008				Diesel	PROCEDURE	CLASS *	DDI, TC, CAC, ECM, EGR, OC, PTOX	EMD				
	'ENGINE'S IDLE NS CONTROL			ADD	ITIONAL IDLE EN	IISSIONS COI	NTROL 5					
E)	XEMPT	N/A										
ENGINE (L	L)	ENGINE MODELS / CODES (rated power, in hp)										
10.8	ISM 330 / 2731;FR20134 (330), ISM 280 / 2731;FR20135 (291)											
*					*			···· ···				
*												
CNG/LN L/M/H H ECS=err up catalyst; TBI=throttle	IG=compressed/liqui IDD=light/medium/he nission control syster DPF=diesel particul body fuel injection; ier: CAC=charge air	efied natural avy heavy n; TWC/(ate filter; SFI/MFI=; cooler: F	ral gas; LPG=liquefi, y-duty diesel; UB=ur DC=three-way/oxidizi PTOX=periodic trap sequential/multi port GR / FGR-C=exhau	ed petroleum gas; E85=85% elh ban bus; HDO=heavy duty Otto ng catalyst; NAC=NOx adsorpti oxidizer: HO2S/O2S=heated/ox fuel injection; DGI=direct gasolir st gas recipculation / cooled FGR	anol fuel; MF=multi ; on catalyst; SCR-U ygen sensor; HAFS	fuel a.k.a. BF= / SCR-N=selection	R 86.abc=Title 40, Code of Federal Regulations =bi fuel; DF=dual fuel; FF=flexible fuel; :tive catalytic reduction – urea / – ammonia; W sir-fuel-ratio sensor (a.k.a., universal of linear o; buretor; IDI/DDI=indirect/direct diesel injection; prjection; SPL=smoke puff limiter; ECM/PCM=	U (prefix) ≃warm- xygen sensor);				
ESS=en	gine shutdown syste	m (per 13	CCR 1956.8(a)(6)(A	(∡) (sumx)=m series; 3(1): 30or≃30 o/hr NOx (per 13 0	CR 1956 8(a)(6)(C)	. APS ≃interna	of combustion surviving power system. At Table					
per 13 CCr	v ianoro(a)(o)(⊓)' ⊏	xempt=ex	rempred per 13 CCR	1956.8(a)(6)(B) or for CNG/LNG 71); OBD≕on-board diagnostic s	fuel systems; N/A:	not applicable	(e.g., Otto engines and vehicles);	emauve meulos				

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		со		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	*	*	*	*	2.5	2.5	*	*	*	*	*	*
CERT	0.01	0.01	*	*	2.2	1.7	0.00	0.00	0.002	0.001	*	*
NTE	0.6		*		3,1		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:** 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-021-0467 dated January 18, 2008.

Executed at El Monte, California on this \_\_\_\_\_\_ day of August 2008.

Annette Hebert, Chief / Mobile Source Operations Division

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