

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 PROCEDURE	INTENDED SERVICE CLASS 2	ECS & SPECIAL FEATURES 3	DIAGNOSTIC ¹			
2009	9FMXE06.8BWX 6.8		6.8	Gasoline	Otto	НРО	TWC, SFI, 2HO2S	EMD			
	ENGINE'S IDLE NS CONTROL			AC	DOITIONAL IDLE EN	IISSIONS CON	itrol ⁵				
	N/A	N/A									
ENGINE (L)	ENGINE MODELS / CODES (rated power, in hp)									
6.8	E.	E450: 9E418N0500, 9E418N0505, 9E418N0506, 9E418N0507, 9E418N0507, 9E418N0505, 9E418N0520, 9E418N0520 (305 for all codes)									
*		*									
L=liter; hp: CNG/LN LIMH H ECS=er up catalyst; TBI=lhrottle super charg control mod ESS=er	=horsepower; kw=k NG=compressed/liqu IDD=light/medium/himission control syste DPF=diesel particus body fuel injection; per CAC=charge ailule; EM=engine mongine shutdown systems	dowatt; his efied natureavy heavy m; TWC/ late filter; SFI/MFI= cooler; Edification; ern (per 13	r=hour; rral gas; LPG=liquefie ry-duty diesel; UB=url OC=three-way/oxidizi PTOX=periodic trap rsequential/multi port f sequential/multi port f c prefix-parallet; 3 CCR 1956.8(a)(6)(A	d petroleum gas; E85=85% an bus; HDO=heavy duty O ang calalyst; NAC=NOx adsoroxidizer; HO25/O25=heated 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=mult otto; ption catalyst; SCR-L /oxygen sensor; HAF: oline injection; GCAR GR; PAIR/AIR=pulser 3 CCR 1956.8(a)(6)(C	i fuel a.k.a. BF= / SCR-N=selec s/AFS=heated/a B=gaseous cart //secondary air i /: APS =interna	Refabc=Title 40, Code of Federal Regulation bi fuet; DF=dual fuel; FF=flexible fuel; tive catalytic reduction – urea / ammonia; iir-fuel-ratio sensor (a.k.a., universal or linear buretor; IDVDDI=indirect/direct diesel injection njection; SPL=smoke puff limiter; ECM/PCN combustion auxiliary power system; ALT=; (e.g., Otto engines and vehicles);	WU (prefix) =warm- oxygen sensor); on; TC/SC=turbo/ M=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	NMHC		NOx		NMHC+NOx		CO		PM		нсно	
g/bhp-hr	FTP	EURO	FTP	EURO	FTP	EURO	FTP	EURO	FTP	EURO	FTP	EURO
\$TD	0.14	٠	0,20		•	•	14.4	*	*	*	0.01	+
FEL	*	*	*		٠	*	*	•	•	•	*	•
CERT	0.12	•	0.05	*	*	*	7.9	*	•	•	0.001	*
NTE	*		•		•		*		•		*	

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-010-1518 dated June 26, 2008.

Executed at El Monte, California on this ______ day of October 2008.

Annette Hebert, Chief

Mobile Source Operations Division