

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 FAM	ENGINE SIZES (L)	FUEL TYPE 1	STANDARDS & TEST PROCEDURE	INTENDED SERVICE CLASS ²	ECS & SPECIAL FEATURES 3	DIAGNOSTIC 6					
2009	9FMXE06.8B		Gasoline	Otto	HDO	TWC, SFI, 2HO2S						
	Y ENGINE'S IDLE ONS CONTROL		AD	DITIONAL IDLE EN	AISSIONS CO	NTROL ⁵						
N/A			NIA									
			ENGINE MO	DELS / CODES (ra	rted pow ar, in	hp)						
ENGINE	(L)			E450 / 9E418N0500	(305)							
6.8				*								
• =not app	dicable: GVWR=gros	s vehicle weight rating; 1	3 CCR xyz=Title 13, California Cod	e of Regulations, Sec	tion xyz; 40 CF	R 86.abc=Title 40. Code of Federal Regulation	ons, Section 86.abc;					
L=liter; ht CNG/I 2 L/M/H 3 ECS= up cataly: TBi=throf super challed the control m 5 ESS=	p=norsepower; kw-k LNG=compressed/liqu HDD=light/medium/h emission control syste st: DPF=diesel partica tile body fuel injection; griger; CAC=charge at odule; EM=engine mengine shutdown systems	iefied natural pas; LPG= eavy heavy-duty diesel; I em; TWC/OC=three-way/ late filter; PTOX=period SFIMFI=sequential/mul r cooler; EGR / EGRC= pdification; 2 (prefix)=pa em (per 13 CCR 1958.8/e	iquefied petroleum gas; E85=85% UB=urban bus; HDO=heavy duty C oxidzing catalyst; NAC=NOx adso ic trap oxidzer; HO25/02S=heated til port fuel injection; DGI=direct gas exhaust gas recirculation / cooled E rallet; (2) [suffitx)=in series;	ethanot fuel; MF=mu pito; rption catalyst; SCR- loxygen sensor; HAI soline injection; GCA GR; PAIR/AIR=pufsi 13 CCR 1955.8(a)(6)(NG fuel systems; N/	Iti fuel a.k.a. Bi Iti / SCR-N=sele FS/AFS=heated RB=gaseous Ca ed/secondary air (A=nol applicable	E-bi fuel; DF=dual fuel; FF=flexible fuel; ective catalytic reduction – urea / – ammonia: /air-fuel-ratio sensor (a.k.a., universal or linea; /air-fuel-ratio sensor (a.k.a.), universal or linea; /air-fuel-ratio sensor (a.k.a.), universal or linea; /air-fuel-ratio sensor (a.k.a.), universal or linea; injection; SPL=smoke puff limiter; ECMPC and combustion auxiliary power system; ALT is (e.g., Otto engines and vehicles);	WU (prefix) =warm ar oxygen sensor); ion; TC/SC=turbo/ M=engine/powertraii					

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.).

										PM	HO	НО
	NM	HC	N	Юx	NMF	C+NOx		:0				EURO
in L			670	EURO	ETP	EURO	FTP	EURO	FTP	EURO	FTP	EURU
g/bhp-hr	FTP	EURO	FTP	2010	-		14.4	*	0.01	*	0.01	<u> </u>
STD	0.14		0.20			-	14.4	-		*	*	·
EL	•			•							0.001	•
ERT	0.12		0.05	• //			7.9	•				•
TE		•		*	<u> </u>	*						emissions

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;

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.

Executed at El Monte, California on this

__ day of June 2008.

Annette Hebert, Chief Mobile Source Operations Division