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 FAMILY	ENGINE SIZES (L)	FUEL TYPE 1	STANDARDS & TEST	SERVICE	ECS & SPECIAL FEATURES 3	DIAGNOSTIC 6				
· -		``	C!	PROCEDURE	CLASS	2TWC, 2HO2S(2), SFI	EMD				
2009	2009 9GMXE08.1503 8		Gasoline	Otto	HDO						
	PENGINE'S IDLE ONS CONTROL		Al	DDITIONAL IDLE EN	IISSIONS CON	TROL ⁵					
	N/A	N/A									
ENGINE (IL)		ENGINE MO	ODELS / CODES (ra	ted power, in h	ip}					
8.1	· · · · · · · · · · · · · · · · · · ·	L18 / 20 (325), L18 / 30 (330), L18 / 31 (310)									
L=liter; hp CNG/L 2 L/JWH	⊫horsepower; kw=kilowatt; NG=compressed/liquefied na HDD=light/medium/heavy he	hr=hour; stural gas; LPG=liquefie avy-duty diesel; UB=urb	d petroleum gas; E85≠85% an bus; HDO≕heavy duty (ethanol fuel; MF≅mul Otto;	ti fuel a.k.a. BF=	85.abc=Title 40, Code of Federal Regulation in the state of the state					
up catalys: TBI=throtti super char control mo	t; DPF=diesel particulate filte le body fuel injection; SFI/MI ger, CAC=charge air cooler dule; EM=engine modification	er; PTOX=periodic trap of FI=sequential/multi port fi ; EGR / EGR-C=exhaus on; 2 (prefix)=parafiel; (xidizer; HO2S/O2S=heater set injection; DG1=direct ga gas recirculation / cooled E 2) (suffix)=in series;	d/oxygen sensor; HAF soline injection; GCAF EGR; PAIR/AIR=pulse	S/AFS=heated/ai RB=gaseous carb d/secondary air in	ive catalytic reduction – urea / – ammonia; ir fuel-ratio sensor (a.k.a., universal or lines uretor, IDI/DDI≕indirect/direct diesel inject njection; SPL≃smoke puff limiter; ECM/PC	er oxygen sensor); ion; TC/SC=turbo/ :M≃engine/powerirain				
(per 13 CC	CR 1956.8(a)(6)(D); Exempt	=exempted per 13 CCR	1956.8(a)(6)(B) or for CNG/	LNG fuel systems; N/	N=not applicable :	f combustion auxiliary power system; ALT: (e.g., Otto engines and vehicles);	=alternative method				
EMD=	engine manufacturer diagno	stic system (13 CCR 197	OBD=on-board diagnos	stic system (13 CCR 19	971.1);						

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
STD	+	•	*	•	*	•	14.4	*	0.01	*	0.01	*
FEL	0.30	*	0.70	1	•	*	•	*	*	*	•	*
CERT	0.17	*	0.47	•	*	+	5.8	*	*	•	0.002	•
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.

Executed at El Monte, California on this _______ 50 2 day of May 2008

Annette Hebert, Chief

Mabile Source Operations Division