Californ	ia Environmental Protection a	Agency
	RESOURCES	BOARD

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-45-9;

IT IS ORDERED AND RESOLVED: The engine and emission control systems produced by the manufacturer are certified as described below for use in diesel or incomplete medium-duty vehicles with a manufacturer's GVWR from 8501 to 14000 pounds. Production engines shall be in all material respects the same as those for which certification is granted.

	EMISSION STD CATEGORY ²	FUEL TYPE 1	STANDARDS & TEST PROCEDURE	ENGINE SIZES (L)	ECS & SPECIAL FEATUR	ES ³	OBD COMPLIANCE
8GMXH04.8581	ULEV	Gasoline	Otto	4.8	2TWC, 2H02S(2), SFI		OBD(F)
ENGINE MODELS / CODES (rated power, in hp)						ENGINE	OBD
LY2 / 10 (246), 20 (233), 30 (218)							OBD(F)
		*					*
		*					*
CM/Decree web-		1				• •	*
	8GMXH04.8581	ENGINE FAMILY STD CATEGORY ² 8GMXH04.8581 ULEV ENG	ENGINE FAMILY STD CATEGORY ² BGMXH04.8581 ULEV Gasoline ENGINE MODELS / CODES (ra LY2 / 10 (246), 20 (233	ENGINE FAMILY STD CATEGORY ² BGMXH04.8581 ULEV Gasoline Otto ENGINE MODELS / CODES (rated power, in hp) LY2 / 10 (246), 20 (233), 30 (218)	ENGINE FAMILY STD CATEGORY 2 GATEGORY 2 BGMXH04.8581 ULEV Gasoline Otto 4.8 ENGINE MODELS / CODES (rated power, in hp) LY2 / 10 (246), 20 (233), 30 (218)	ENGINE FAMILY STD CATEGORY ² Gasoline Otto 4.8 2TWC, 2HO2S(2), SH ENGINE MODELS / CODES (rated power, in hp) LY2 / 10 (246), 20 (233), 30 (218)	ENGINE FAMILY STD CATEGORY ² POEL TYPE STATARDARDS & TEST ENGINE ECS & SPECIAL FEATURES 8GMXH04.8581 ULEV Gasoline Otto 4.8 2TWC, 2HO2S(2), SFI ENGINE MODELS / CODES (rated power, in hp)

erroleum gas; E85=85% ethanol fuel; MF=multi fuel a.k.a BF=bi fuel; DF=dual fuel; FF=flexible fuel; SULEV / ULEV / LEV=super uttra / ultra / low emission vehicle;

SULEV / ULEV / LEV super uttra / uttra

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, in g/bhp-hr, 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 dual- and flexible-fueled engines, the CERT values in brackets [] are those when tested on conventional test fuel.)

	NN	AHC .	NOx		NMHC+NOx		co		PM		нсно	
	FTP	EURO	FTP	EURO	FTP	EURO	FTP	EURO	FTP	EURO	FTP	
STD		*	*		· ·					EURO	- T IP	EURO
ΈL	*					-	14.4		*	*	0.05	•
					0.8		- · ·	•	*	•	*	*
ERT	*	•	*		0.7		2.9		•	· · · · ·	0.000	
ITE		*		•							0.003	

a g/bhp-hr=grams per brake horsepower-hour; FTP=Federal Test Procedure; EURO=Euro III European Steady-State Cycle; NTE=Not-to-Exceed emission limit; 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: The listed engine models have been certified to the optional emission standards and test procedures in 13 CCR 1956.8 applicable to diesel or incomplete medium-duty vehicles with a GVWR from 8501 to 14000 pounds and, therefore, shall be subject to 13 CCR 2139(c) (in-use testing of engines certified for use in diesel or incomplete medium-duty vehicles with a 8501-14000 pound GVWR).

BE IT FURTHER RESOLVED: The listed engine models have been certified to the Option 1 federal NMHC+NOx emission standard listed above pursuant to 13 CCR 1956.8.

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), 13 CCR 1968.2 (on-board diagnostic, full or partial compliance), 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 May 2007.

Annette Hebert, Chief Mobile Source Operations Division