BAYTECH CORPORATION

EXECUTIVE ORDER A-330-0184 New On-Road Heavy-Duty Engines

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.

DIAGNOSTIC N/A	ECS & SPECIAL FEATURES 3	INTENDED SERVICE	STANDARDS & TEST	FUEL TYPE ¹	ENGINE SIZES (L)	MILY	ENGINE FAN	MODEL YEAR
	TWC, SFI, 2HO2S	CLASS 1	PROCEDURE		312E3 (E)			
	1440, 311, 211023	HDO	Otto	LPG	8.1	8BYTH08.1P12 8.1		2008
	TROL ⁵	issions con	DITIONAL IDLE EM	AD			ENGINE'S IDLE NS CONTROL	
		N/A						
	p)	led power, in I	ELS / CODES (rat	ENGINE MO			-)	ENGINE (L
		(9)	GM 8.1L / 1 (27					8.1
		-	•			****		
Section 86.abc:	86.abc=Tille 40, Code of Federal Regulation	on xyz; 40 CFR	of Regulations, Secti	R xyz=Title 13, California Code	eight rating; 13 CCI	ss vehicle w	able; GVWR=gros	=not applic
					=hour;	kilowatt; hr -	norsepower; kw≕k	≔liter; hyp≕
S	86.abc=Tille 40, Code of Federal Regulation if uel: DF=dual fuel; FF=flexible fuel:	on xyz; 40 CFR	of Regulations, Secti		=hour; ral gas; LPG=liquefic	kilowatt; hr: uefied natur	thorsepower; kw≕k IG≃compressed/liqu	=not applic =liter; hp= CNG/LN

L/M/H HDD=light/medium/heavy heavy-duty diesel; UB=urban bus; HDO=heavy duty Otto;

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 heavyduty 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	*	*	*	*	1.0	*	37.1	*	*	*	*	*
FEL	*	*	*	*	*	*	*	*	*	•		*
CERT	*	*	*	*	0.9	*	8.7	*	*	*	*	*
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=famity emission limit; CERT=certification level; NMHC/HC=non-methane/hydrocarbon; NOx=oxides of nitrogen CO=carbon monoxide; PM=particulate matter; HCHO=formaldehyde; (Rev.: 2007-02-2

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 April 2008.

Annette Hebert, Chief

Mobile Source Operations Division

EMD=engine manufacturer diagnostic system (13 CCR 1971); OBD=on-board diagnostic system (13 CCR 1971.1);