California Environmental Protection Agency AIR RESOURCES BOARD

BAYTECH CORPORATION

EXECUTIVE ORDER A-330-0059 New On-Road Heavy-Duty Engines

Pursuant to the authority vested in the Air Resources Board by Health and Safety Code (HSC) Division 26, Part 5, Chapter 2; and pursuant to the authority vested in the undersigned by HSC Sections 39515 and 39516 and

IT IS ORDERED AND RESOLVED: That 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 gross vehicle weight rating (GVWR) over 14,000 pounds. Production engines shall be in all material respects the same as those for

MODEL	[ENGINE							
YEAR		SIZE (liter)	FUEL TYPE (CNG/LNG=compressed/liquefled natural gas; LPG≈liquefled petroleum gas)	STANDARDS & TEST	INTENDED SERVICE CLASS (L/W/H HDD=light/medium/heavy heavy-duty				
2002	2BYTH05.7LEV	5.7	Dual-Fuel CNG or Gasoline	PROCEDURE	[HD] diesei; UB=urban bus; HDO=HD Otto)				
SPECIAL FEATURES &				Otto	LIDA				
EMISSION CONTROL SYSTEMS		ENGINE MODELS / CODES (rated power in horsepower, hp)							
EGR, 2TWC, 2HO2S(2), ECM, TBI (CNG), SFI (Gasoline)		L31-CNG OR GASOLINE / 3 (211 hp for CNG; 245 hp for Gasoline)							
TWC/OC=thre SFI=sequenti injection PA	ee-way/oxidizing catalyst aIMFI DDI/IDI=direct /inc IR=pulsed AIR SPL=smoi	L WU (prefix) =w lirect diesel inj ke puff limiter	arm-up cat. O2S=oxygen sensor HO2S=heated action TC/SC=turbo/super charger CAC=charg	02S TBI=throttle bo	dy fuel injection MFI=multi port fuel injection xhaust gas recirculationAIR=secondary ar				
	daa aa u			in-engine modificat	ion 2 (prefix)=parallel (2) (suffix)=in series				

The following are the exhaust emission standards (CERT), or family emission limit(s) (FEL) as applicable, and certification levels (CERT) in grams per brake horsepower-hour (g/bhp-hr) for this engine family for hydrocarbon (HC) or non-methane HC (NMHC), oxides of nitrogen (NOx), or NMHC+NOx, carbon monoxide (CO) [except that "diesel" CO certification compliance may have been demonstrated pursuant to Code of Federal Regulations, Title 40, Part 86, Subpart A, Section 86.091-23(c)(2)(i) in lieu of testing], particulate matter (PM), and formaldehyde (HCHO) under the "Federal Test Procedure" (FTP) (Title 13, California Code of Regulations, (13 CCR) Section 1956.1 (urban bus) or 1956.8 (other than urban bus)): (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 Section 1956.1 or 1956.8 are in parentheses.)

= not applicable [g/bhp-hr]	HC	NMHC	NO	1			
(DIRECT) STANDARD	*		NOx	NMHC+NOx	co	PM	НСНО
CORPORATE AVERAGE STANDARD	•	1.7	1.5	*	37.1	*	*
FAMILY EMISSION LIMIT (FEL)	•		* *	*	*	*	
CERTIFICATION LEVEL		0.00	*	*	*	*	*
	•	[0.2]	1.3 [1.3]	•	5.9 [1.5]		*

BE IT FURTHER RESOLVED: That 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: That the listed engine models have been certified to the FTP optional NOx emission standard listed above pursuant to 13 CCR Section 1956.1 or 1956.8.

BE IT FURTHER RESOLVED: That for the listed engine models, the manufacturer has submitted the materials to demonstrate certification compliance with 13 CCR Sections 1965 (emission control labels), and 2035 et seq.

Engines certified under this Executive Order shall 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

atay of January 2002.

R. B. Summerfield, Chief Mobile Source Operations Division