

BAYTECH CORPORATION

EXECUTIVE ORDER A-330-0066 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 Executive Order G-45-9;

IT IS ORDERED AND RESOLVED: That the following 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 which certification is granted.

MODEL YEAR	ENGINE FAMILY	ENGINE SIZE (liter)		FUEL TYPE	STANDARDS & TEST PROCEDURE	INTENDED SERVICE CLASS		
2002	2BYTH05.7ULV	5.7	Compressed	Dual Fuel Natural Gas or Gasoline	Otto	Heavy-Duty		
		EATURES & TROL SYSTEMS		ENGINE MODELS / CODES (rated power in horsepower, hp)				
SFI	(Gasoline), TBI (CNG), 2	TWC, 2HO2S(2),	EGR, ECM			····		
fuel injection /indirect diese EGR=exhausi SP=smoke pu	ONS: OC=oxidizing catalyst lalyst O2S=oxygen senso MFI=multiport fuel injecti el injection TC/SC=turbo/s gas recirculation AIR=see Tf limiter ECM/PCM=engir odification 2 (prefix)=para	r HO2S≖heated O2S on SFI≖sequentialN ouper charger CAC condary air injection	TBi≖throttle body IFI DDVIDI=direct =charge air cooler PAIR=pulsed AIR	L31-CNG or GASOLINE/ 3 (211 hp for CNG, 245 hp for Gasoline)				

The following are the exhaust emission standards, or family emission limit(s) (FEL) as applicable, and certification levels for this engine family for hydrocarbons (HC) or non-methane hydrocarbons (NMHC), oxides of nitrogen (NOx), or NMHC+NOx, carbon monoxide (CO), particulate matter (PM), and formaldehyde (HCHO) in grams per brake horsepower-hour (g/bhp-hr) (Title 13, California Code of Regulations, (13 CCR) Section 1956.1 (urban bus) or 1956.8 (other than urban bus)): (The emission standards and certification levels for default operations permitted under 13 CCR Section 1956.1 or 1956.8 are in parentheses.) (For bi-, dual- or flexible-fueled engines, the certification levels in brackets are those applicable to testing on gasoline test fuel.)

* = not applicable [g/bhp-hr]	HC	NMHC	NOx	NMHC+NOx	со	PM	нсно
(DIRECT) STANDARD	*	1.7	1.5	•	37.1	*	•
CORPORATE AVERAGE STANDARD	*	*	*	•	*	*	
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 at the manufacturer's request, the listed engine models have been certified to the optional lower 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 labeling), and 2035 et seq. (emission control system warranty).

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

_ day of Jacquary 200.

K. B. Summerfield, Chief

Mobile Source Operations Division