

State of California
AIR RESOURCES BOARD

EXECUTIVE ORDER A-330-35

Relating to Certification of New Medium-Duty Motor Vehicle Engines

BAYTECH CORPORATION

Pursuant to the authority vested in the Air Resources Board by Sections 43100, 43102 and 43103 of the Health and Safety Code; and

Pursuant to the authority vested in the undersigned by Sections 39515 and 39516 of the Health and Safety Code and Executive Order G-45-9;

IT IS ORDERED AND RESOLVED: That the following 2001 model-year Baytech Corporation Otto-cycle engines are certified for use in medium-duty vehicles with a manufacturer's gross vehicle weight rating (GVWR) between 8,501 and 14,000 pounds:

Emission Standard Category: Ultra-Low-Emission Vehicle (ULEV)

Fuel Type: Compressed Natural Gas

<u>Engine Family</u>	<u>Engine Displacement Liters (Cubic Inches)</u>	<u>Exhaust Emission Control Systems and Special Features</u>
1BYTH05.7ILV	5.7 (350)	Throttle Body Fuel Injection Dual Three Way Catalytic Converters Dual Heated Oxygen Sensors (two) Exhaust Gas Recirculation Engine Control Module

Engine models and codes are listed on attachments.

The ULEV certification exhaust emission standards for this engine family in grams per brake horsepower-hour are:

<u>Non-Methane Hydrocarbons + Nitrogen Oxides</u>	<u>Carbon Monoxide</u>	<u>Formaldehyde</u>
2.5	14.4	0.050

The ULEV certification exhaust emission values for this engine family in grams per brake horsepower-hour are:

Non-Methane Hydrocarbons
+ Nitrogen Oxides

Carbon
Monoxide

Formaldehyde

1.3

5.9

0.0004

BE IT FURTHER RESOLVED: That the listed engine models are certified to the optional ULEV standards and test procedures applicable to incomplete and diesel medium-duty vehicles between 8,501 and 14,000 pounds GVWR pursuant to Title 13, California Code of Regulations, Section 1956.8(h).

BE IT FURTHER RESOLVED: That the listed engine models shall be subject to the in-use compliance provisions applicable to 1995 and subsequent model-year medium-duty vehicle engines set forth in Title 13, California Code of Regulations, Section 2139(c).

BE IT FURTHER RESOLVED: That for the listed engine models, the manufacturer has submitted the materials to demonstrate certification compliance with the Board's emission control system warranty provisions (Title 13, California Code of Regulations, Section 2035 et seq.).

BE IT FURTHER RESOLVED: That the listed engine models also comply with the "Malfunction and Diagnostic System Requirements--1994 and Subsequent Model-Year Passenger Cars, Light-Duty Trucks, and Medium-Duty Vehicles and Engines" (Title 13, California Code of Regulations, Section 1968.1).

BE IT FURTHER RESOLVED: That the listed engine models comply with the "California Motor Vehicle Emission Control and Smog Index Label Specifications" for the aforementioned model year (Title 13, California Code of Regulations, Sections 1965).

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 order and attachments.

Executed at El Monte, California this 8th day of May 2001.



R. B. Summerfield, Chief
Mobile Source Operations Division

Engine Model Summary Form

EO#: A-330-35
(Attachment)

Manufacturer: Baytech Corporation
 Engine category: On-highway HDGE
 EPA Engine Family: 1BYTH05.7ILV
 Mfr Family Name: ILEV
 Process Code: New Submission

1.Engine Code	2.Engine Model	3.BHP@RPM (SAE Gross)	4.FuelRate: mm/stroke @ peak HP (for diesel only)	5.FuelRate: (lbs/hr) @ peak HP (for diesels only)	6.Torque @ RPM (SEA Gross)	7.FuelRate: mm/stroke@peak torque	8.FuelRate: (lbs/hr)@peaktorque	9.EmissionControl Device PerSAE J193
2	L31-CNG	211@4476	N/A	N/A	275@2850	N/A	N/A	EGR/TWC/HO2S GUCPIVOM TBI/ECM

Part Number Summary Form

A-330-35
(Attachment)

Manufacturer: Baytech Corporation
 Engine category: On-highway HDGE
 EPA Engine Family: 1BYTH05.7ILV
 Mfr Family Name: ILEV
 Process Code: New Submission

Engine Code	Engine Model	Injection Pump	Injector	Turbo Charge	Electronic Control Module	After Treatment Device (Specify)	Smoke Puff Limiter	Sensor Assemblies	
								Description	Part Number
2	L31-CNG	N/A	4SP021 (ASM)	N/A	16265055	25160620	N/A	IAT	12160244, 8993746
					16249385	TWC (2 used)			
					16250279				
					16208546				
					16244210				
					16229684			Eng. Cool	25036979, 25037196, 12146312
					16263494			HTD O2 PRE	25160540,
					16258835				
					12200411				
									25163079, 25312191, 25312200
								HTD O2 Post	25163080, 25312201
								MAF	25178988
								MAP	16187556, 16249939
								Knock Cr/Shf Posn	10456288, 10456200, 10456532, 10456542, 10456572, 10456607

Part Number Summary Form

A-330-35
(Attachment)

Manufacturer: Baytech Corporation
Engine category: On-highway HDGE
EPA Engine Family: 1BYTH05.7ILV
Mfr Family Name: ILEV
Process Code: New Submission

Engine Code	Engine Model	Distributor Asm	Ign. Module Asm	C/Case Vent Valve	EGR Valve Asm	Regulator Asm	CNG Lock-off valve	Fuel Filter	CNG Driver Module
2	L31-CNG	1103977,	1106027,	6487530	25312788,	REG-180	part of reg asm	CF-100	BT7000