

State of California
AIR RESOURCES BOARD

EXECUTIVE ORDER A-328-18

Relating to Certification of New Heavy-Duty Motor Vehicle Engines

IMPCO TECHNOLOGIES, INC.

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 engine and emission control system produced by the manufacturer are certified for use in heavy-duty vehicles with a manufacturer's gross vehicle weight rating (GVWR) greater than 14,000 pounds:

Model Year: 2001

Fuel Type: Liquefied Petroleum Gas (LPG)

<u>Engine Family</u>	<u>Engine Displacement Liters (Cubic Inches)</u>	<u>Exhaust Emission Control Systems and Special Features</u>
1TJXH08.1502	8.1 (496)	Three-Way Catalytic Converter Carburetor Exhaust Gas Recirculation Heated Oxygen Sensors (two)

Engine models and codes are listed on attachments.

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

<u>Total Hydrocarbons</u>	<u>Carbon Monoxide</u>	<u>Nitrogen Oxides</u>
1.9	37.1	4.0

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

<u>Total Hydrocarbons</u>	<u>Carbon Monoxide</u>	<u>Nitrogen Oxides</u>
0.7	22.9	0.9

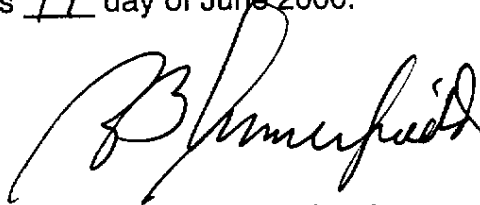
BE IT FURTHER RESOLVED: That for the listed engine models, the manufacturer has submitted the materials to demonstrate certification compliance with the Board's emission control system warranty provisions (Title 13, California Code of Regulations, Section 2035 et seq.).

BE IT FURTHER RESOLVED: That the listed engine models comply with the "California Motor Vehicle Emission Control and Smog Index Label Specifications" for the aforementioned model year (Title 13, California Code of Regulations, Section 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 19th day of June 2000.



R. B. Summerfield, Chief
Mobile Source Operations Division

Engine Model Summary Form

Manufacturer: **IMPCO Technologies, Inc.**
Engine category: **On-highway HDGE**
EPA Engine Family: **1TJXH08.1502**
Mfr Family Name: **NA**
Process Code: **New Submission**

1.Engine Code	2 Engine Model	3.BHP@RPM (SAE Gross)	4.Fuel Rate: mm ³ /stroke @ peak HP (for diesel only)	5.Fuel Rate: (lbs/hr) @ peak HP (for diesels only)	6.Torque @ RPM (SEA Gross)	7.Fuel Rate: mm ³ /stroke@peak torque	8.Fuel Rate: (lbs/hr)@peak torque	9.Emission Control Device Per SAE J1930
01	L18 LPG	276@3902	NA	NA	395@3100	NA	NA	TWC, CARB, EGR, HO2S(2).

EO#: A-328-18
(Attachment)

Part Number Summary Form

Manufacturer: **IMPCO Technologies, Inc.**
 Engine category: **On-highway HDGE**
 EPA Engine Family: **1TJXH08.1502**
 Mfr Family Name: **NA**
 Process Code: **New Submission**

Engine Code	Engine Model	Injection Pump	Injector	Turbo Charge	Electronic Control Module	After Treatment Device (Specify)	Smoke Puff Limiter	Description	Part Number
01	L18 LPG	NA	NA	NA	ECU	Catalyst	NA	H02S(2)	12565414
		LPR	LPR		100665	25328022			
		100325	100325						
		Mixer	Mixer						
		100717	100717						
		MCS, ICS	MCS, ICS						
		100562	100562						
		ETC	ETC						
		V3-21520	V3-21520						
		Fuel Lockoffs	Fuel Lockoffs						
		100609	100609						

EO#: A-328-18
 (Attachment)