State of California AIR RESOURCES BOARD

EXECUTIVE ORDER A-328-20

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)

Engine Family	~	isplacement ubic Inches)	Exhaust Emission Control Systems and Special Features						
1TJXH08.1505	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:

Total <u>Hydrocarbons</u>	Carbon Monoxide	Nitrogen Oxides
1.9	37.1	1.5

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

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

BE IT FURTHER RESOLVED: That the listed engine models are certified to the optional lower-emission NOx standard listed above pursuant to Title 13, California Code of Regulations, Section 1956.8(a)(1).

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 _

R. B. Summerfield, Chief

day of June 2000.

Mobile Source Operations Division

Engine Model Semmary Form

Manufacturer: IMPCO Technologies, Inc.

Engine category: On-highway HDGE

EPA Engine Family. 1TJXH08.1505

Mfr Family Name: NA

Process Code: New Submission

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4.Fuel Rate: mm/stroke @ peak HP (for diesel only)	NA												
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Part Number Sur mary Form

Manufacturer: IMPCO Technologies, Inc.

Engine category: On-highway HDGE

EPA Engine Family: 1TJXH08.1505

Mfr Family Name: NA

Process Code: New Submission

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Smoke Puff Limiter	NA	7															
After Treatment Device (Specify)	Catalyst	25328022															
Electronic Control Module	ECU	100665							The second secon								
Turbo Charge	NA															The second secon	
Injector		LPR	100325	Mixer	100717	MCS, ICS	100562	ETC	V3-21520	Fuel Lockoffs	100609				46. 44.		
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