State of California AIR RESOURCES BOARD

EXECUTIVE ORDER A-300-8

Relating to Certification of New Heavy-Duty Motor Vehicle Engines

· THERMO POWER 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 1996 model-year Thermo Power Corporation Otto-cycle engines are certified for use in motor vehicles with a manufacturer's gross vehicle weight rating (GVWR) over 14,000 pounds:

Fuel Type: Compressed Natural Gas (CNG)

Engine Family		e Displacement s (Cubic Inches)	Exhaust Emission Control Systems and Special Features
TTC7.0D2CAEA	7.0	(427)	Three-Way Catalytic Converter

Engine models and codes are listed on attachments.

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

Non-Methane	Carbon Monoxide	Nitrogen Oxides
Hydrocarbons		-
1.7	37.1	5.0

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

Engine Family	Non-Methane	Carbon	Nitrogen
	<u>Hydrocarbons</u>	<u>Monoxide</u>	Oxides
TTC7.0D2CAEA	0.3	14.5	1.4

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.).

THERMO POWER CORPORATION

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 6th day of September 1996.

R. B. Summerfield

Assistant Division Chief Mobile Source Division

E.O.# A-300	-8
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199<u>6</u> MODEL-YEAR AIR RESOURCES BOARD SUPPLEMENTAL DATA SHEET HEAVY-DUTY OTTO-STANDARD ENGINES

Exhaust ECS (e.g Engine Model (Eng Code)	HERMO POWER Eng Family: Pedicated x NG LPG wer: 195	CORP. 7.0 Lite CA_x 49S 5 Flex-Fuel D M85 M100	os	TTC7.0 D2C. / 427 Valve Fuel Gaso cify) Engine Conf	AEACubic Inches s/Cylinder: lineCNG_X
All Eng Codes in Fuel Type(s): D L Maximum Rated Por Exhaust ECS (e.g Engine Model (Eng Code)	Eng Family: Pedicated_x NG LPG_ wer:195 ., OC, TWC, M Rated HP @ RPM	CA_x 49S 5 Flex-Fuel D M85 M100 HP @ 40 MFI, EGR, TC, CA Ignition System or ECM/PCM	os	Valve Fuel Gaso ify) Engine Conf	Cubic Inches s/Cylinder: line CNG_X iguration:V8 E J1930 SEP91)
Fuel Type(s): D L Maximum Rated Por Exhaust ECS (e.g Engine Model (Eng Code)	Medicated_x NG LPG_ wer:195 ., OC, TWC, M Rated HP @ RPM	Flex-Fuel D M85 M100 HP @40 MFI, EGR, TC, CA Ignition System or ECM/PCM	ual-Fuel BiOther (spec OO RPM C): TWC (Use abbrevi Fuel System Injector & Pump	Valve Fuel Gaso cify) Engine Conf ations per SAR	s/Cylinder: line CNG_X iguration:v8 E J1930 SEP91)
Maximum Rated Por Exhaust ECS (e.g Engine Model (Eng Code)	NG LPG wer:195 ., OC, TWC, M	Flex-Fuel D M85 M100HP @40 MFI, EGR, TC, CA Ignition System or ECM/PCM	ual-Fuel BiOther (specond	Fuel Gaso cify) Engine Conf ations per SAE	line CNG_X iguration:V8 E J1930 SEP91)
Maximum Rated Por Exhaust ECS (e.g. Engine Model (Eng Code)	wer: 195 ., OC, TWC, M Rated HP @ RPM	HP @ 40 MFI, EGR, TC, CA Ignition System or ECM/PCM	OCHEP (spector) C): TWC (Use abbrevi) Fuel System Injector & Pump	Engine Conf	iguration: V8 E J1930 SEP91)
Exhaust ECS (e.g Engine Model (Eng Code)	Rated HP	Ignition System or ECM/PCM	OORPM C):TWC (Use abbrevi Fuel System Injector & Pump	Engine Conf	E J1930 SEP91)
Engine Model (Eng Code)	Rated HP @ RPM	Ignition System or ECM/PCM	(Use abbrevi Fuel System Injector & Pump	ations per SAN	E J1930 SEP91)
Engine Model (Eng Code)	Rated HP @ RPM	Ignition System or ECM/PCM	(Use abbrevi Fuel System Injector & Pump		
(Eng Code)	@ RPM	System or ECM/PCM	Fuel System Injector & Pump		
(Eng Code)	@ RPM	System or ECM/PCM	Injector & Pump	EGR Valve	Catalytic
1 19	95 @ 4000	Part No.		1	Converter
1 19	∌5 @ 4000	1	Part No.	Part No.	Part No.
195 @ 4000		7240310	7171480	Not Used	7330040
j	(GM# 1103992	No Pump	-	(GM# 25130005	
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Date Issued:

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