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#### State of California AIR RESOURCES BOARD

#### EXECUTIVE ORDER A-236-1 Relating to Certification of New Motor Vehicle Engines

### AVCO INDUSTRIAL ENGINE OPERATION

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-45-3;

IT IS ORDERED AND RESOLVED: That the following Avco Industrial Engine Operation 1982 model-year diesel engines are certified for use in motor vehicles with a manufacturer's gross vehicle weight rating greater than 8500 pounds:

Engine Family	Displacement <u>Cubic Inches (Liters)</u>	Exhaust Emission Control Systems (Special Features)
HR-H	219 (3.6)	(Smoke Puff Limiter) (Turbocharger)

Engine Models and Codes as listed on attachments.

Section 43200, Part 5, Division 26 of the California Health and Safety Code requires that the engine manufacturer furnish a decal with each engine sold or delivered to a vehicle manufacturer. The decal shall display the applicable model year heavy-duty engine exhaust emission standards and the following certification emission values:

Engine Family	Hydrocarbons gm/bhp-hr	Carbon Monoxide gm/bhp-hr	Hydrocarbons + Nitrogen Oxides gm/bhp-hr
HR-H	0.30	1.25	5.1

BE IT FURTHER RESOLVED: That the Executive Officer has been provided all material required to demonstrate certification compliance with the Board's emission control system warranty regulations (Title 13, California Administrative Code, Section 2036).

## AVCO INDUSTRIAL ENGINE OPERATION

EXECUTIVE ORDER A-236-1 (Page 2 of 2)

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 attachment.

Executed at El Monte, California this  $\underline{\mathcal{I}}^{\underline{\mathcal{H}}}$  day of June, 1981.

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K. D. Drachand, Chief Mobile Source Control Division

# 1982 AIR RESOURCES BOARD SUPPLEMENTAL DATA SHEET

Manufacturer <u>Avco Ind. Engine</u> Operation	Executive Order No. <u>A-236-1</u>	Page 1
Engine Family	_ Evaporative Family	
	Engine CID (Liters) <u>219 (3.6)</u>	
ABBREVIATIONS		
Ignition System CA-Centrifugal Advance EEC-Electronic Engine Control EI-Electronic Ignition ESAC-Electronic Spark Advance Control VA-Vacuum Advance VR-Vacuum Retard <u>Fuel System</u> CFI, CL, DID, DIP, EFI, MFI nV-nVenturi Carburetor VV-Variable Venturi	Exhaust Emissions Control System AIP-Air Injection-Pump AIV-Air Injection-Valve CL-Closed Loop EGR-Exhaust Gas Recirculation EM-Engine Modification OC-Oxidation Catalyst System TR-Thermal Reactor TWC-Three Way Catalyst System	<pre>Special Features CCV-Combustion Chamber Valve CFI-Central Fuel Injection DID-Diesel Injection- Direct DIP-Diesel Injection- Prechamber</pre> MFI-Mechanical Fuel Injection TC-Turbocharged

Engine Family

Mode1

HR-H

HR692 HTA

DRIVE SYSTEM:

E.O. #A-236-1

1982 AIR RESOURCES BOARD SUPPLEMENTAL DATA SHEET HEAVY-DUTY DIESEL ENGINES

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	Manufacturer	Avco Industrial Eng	ine Operation		Page2	······
	Engine Family_	HR-H		رTD(Liter)-Tر	/pe219 (3.6)	L-6
	ECS(Special Fe	atures) (Smoke Puf				
	Engine Model	Fuel Injection Pump Mfr. Bosh Part Number	Injector Mfr. Bosh Part Number	Maximum Rated HP and RPM	Fuel Rate at Maximum 3 <sup>HP</sup> mm <sup>3</sup> /stroke	Label Ident.
HR692	ΗΤΑ	Type VE6 046-041-6014	KBE5854-4	130 @ 4000	44.5	see pg. 3

Date of Issue -

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-	٢Y	EMISSION CONTROL INFORMATION
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-		AVCO INDUSTRIAL
1		
-		
		SERIAL NO: MODEL MEG DATE
_		
	)	HP RPM FUEL RATE (MM3/STROKE)
	_ \$	STATIC PUMP TIMING - 4° BTDC
4	_<	COLD INLET VALVE INCH
4	. (	COLD EXHAUST VALVE INCH
_		THIS ENGINE CONFORMS TO
	-0	119 EPA EMISSION STANDARDSQ
	- · ·	N

Lable with Calef. Requirements to follow, requested to set