

State of California  
AIR RESOURCES BOARD

EXECUTIVE ORDER A-182  
Relating to Certification of New Motor Vehicle Engines

KLOCKNER-HUMBOLDT-DEUTZ AG

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 Klockner-Humboldt-Deutz AG 1979 model-year diesel engines are certified for use in motor vehicles with a manufacturer's gross vehicle weight rating greater than 8500 pounds:

<u>Engine Family</u>	<u>Displacement Cubic Inches</u>	<u>Exhaust Emission Control Systems (Special Features)</u>
F5L912	288	Engine Modifications (Aircooled)

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:

<u>Engine Family</u>	<u>Hydrocarbons gm/bhp-hr</u>	<u>Carbon Monoxide gm/bhp-hr</u>	<u>Nitrogen Oxides gm/bhp-hr</u>
F5L912	1.3	5	7.3

Engines certified under this Executive Order must conform to all applicable California emission regulations.

The Department of Motor Vehicles and the Bureau of Automotive Repair will be notified by copy of this order and attachment.

Executed at El Monte, California this 7 day of February, 1979.



G. C. Hass, Chief  
Vehicle Emissions Control Division

1979 AIR RESOURCES BOARD SUPPLEMENTAL DATA SHEET  
HEAVY-DUTY DIESEL ENGINES

Manufacturer Klockner-Humboldt-Deutz AG Page 1

Engine Family F5L912 Engine (CID) 288

Emission Control Systems - Type NA (Aircooled)

Engine Model	Fuel Injection Pump Mfgr. Part Number	Injector Mfg. Part Number	Maximum Rated HP and RPM	Fuel Rate at Maximum $\frac{\text{mm}^3}{\text{stroke}} \frac{\text{HP}}{\text{stroke}}$	Basic Initial Timing
Code A	Bosch 223-3203-KY-0150-17 or 223-4137-KY-0150-17	Bosch 223-3085-KZ-0155-19	100 HP @ 2800 rpm	51 39.44 lb/hr	20° BTDC static

Date of Issue - 2-2-79

Abbreviations

Type

NA - Natural Aspiration  
TC - Turbocharged  
TCA - Turbocharged and Aftercooled

Emission Control Systems

AC - Aftercooler  
EGR - Exhaust Gas Recirculation  
TD - Throttle Delay