

State of California
AIR RESOURCES BOARD

EXECUTIVE ORDER A-21-167

Relating to Certification of New Medium-Duty Motor Vehicles and Engines

CUMMINS ENGINE COMPANY, 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 1997 model-year Cummins Engine Company, Inc. diesel-cycle engines are certified for medium-duty vehicles with a manufacturer's gross vehicle weight rating (GVWR) of 8,501 to 14,000 pounds:

Fuel Type: Diesel

<u>Engine Family</u>	<u>Engine Displacement Liters (Cubic Inches)</u>	<u>Exhaust Emission Control Systems and Special Features</u>
VCE359D6D1AK	5.9 (359)	Exhaust Gas Recirculation Oxidation 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:

<u>Non-Methane Hydrocarbons + Nitrogen Oxides</u>	<u>Carbon Monoxide</u>	<u>Particulates</u>
3.9	14.4	0.10

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

<u>Engine Family</u>	<u>Non-Methane Hydrocarbons + Nitrogen Oxides</u>	<u>Carbon Monoxide</u>	<u>Particulates</u>
VCE359D6D1AK	3.8	0.8	0.09

BE IT FURTHER RESOLVED: That, the listed engine models are certified to the optional standards and test procedures applicable to incomplete and diesel medium-duty vehicles of 8,501 to 14,000 pounds GVWR pursuant to Title 13, California Code of Regulations, Section 1956.8(g).

BE IT FURTHER RESOLVED: That the listed engine models and vehicle models shall be subject to the in-use compliance provision applicable to 1995 and subsequent model-year medium-duty vehicles, set forth in Title 13, California Code of Regulations, Section 2139(c).

BE IT FURTHER RESOLVED: That, based on a separate compliance plan submitted by the manufacturer, the listed engine models are permitted alternative in-use compliance pursuant to Title 13, California Code of Regulations, Section 1956.8(g)(d).

BE IT FURTHER RESOLVED: That the submitted alternative in-use compliance plan satisfies the requirement that a maximum of 50 percent of the manufacturer's projected sales of 1997 model-year California-certified medium-duty vehicles will be subject to alternative in-use compliance as stipulated in the above-referenced standards and test procedures.

BE IT FURTHER RESOLVED: That the listed engine models and vehicle models also comply with the "California Motor Vehicle Emission Control Label Specifications" for the aforementioned model year (Title 13, California Code of Regulations, Section 1965).

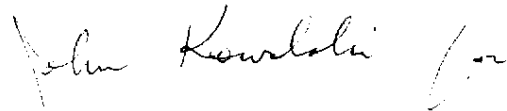
BE IT FURTHER RESOLVED: That the listed engine models and vehicle models complies with the "Malfunction and Diagnostic System Requirements--1994 and Subsequent Model-Year Passenger Cars, Light-Duty Trucks, and Medium-Duty Vehicles and Engines" pursuant to Title 13, California Code of Regulations, Section 1968.1(m)(2.0) for the aforementioned model year.

BE IT FURTHER RESOLVED: That, for the listed engine models and vehicle 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.).

Vehicle 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 December, 1996.


R. B. Summerfield, Chief
Mobile Source Operations Division

1997 MODEL YEAR AIR RESOURCES BOARD SUPPLEMENTAL DATA SHEET
 DIESEL MEDIUM-DUTY VEHICLE ENGINES
 (CERTIFIED USING HEAVY-DUTY ENGINE TEST PROCEDURES)

Manufacturer: Cummins Engine Company, Inc. Engine Family: 403I VCE359D6D1AK
 Engine Config: I-6 Valves/Cyl: 2 Displ: 5.9 Liters / 359 CID
 Cert Std: Tier-1 LEV ULEV Engine Intended Service Class: M4 M5
 In-Use Stds: Full In Use Alt In Use Max Rated Power: 180 HP @ 2500 RPM
 All Eng Codes in Eng Family: CA 49S 50S Stokes/Cycle: 4
 Ignition: Compress Compress w/Glow Plug Spark
 Fuel Type(s): Dedicated Flex-Fuel Dual-Fuel Bi-Fuel Diesel CNG
 LNG LPG M85 M100 Other (specify) _____
 Emiss Test Fuel(s): Diesel: 13 CCR 2282 40 CFR 86.1313-90 40 CFR 86.1313-94
 CNG LPG M85 M100 Other (specify) _____
 Exhaust ECS (e.g., OC, TWX, PTOX, IFI, TC, CAC): OC, EGR
 (Use abbreviations per SAE J1930 SEP91)

Engine Model (Eng Code)	Rated HP @ RPM	Fuel Rate @ Rated HP mm ³ /stroke (lbs/hr)	Fuel Pump & Injector Part No.	ECM/PCM Part No.	EGR Valve Part No.	PTOX / Catalytic Converter Part No.
B5.9-180 (2308)	180 @ 2500	88 (74)	FP:3931303 IN:3926818	N/A	3928655	3926233 3929433 3932434

Date Issued:

Revisions:							
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