

State of California
AIR RESOURCES BOARD

EXECUTIVE ORDER A-21-148

Relating to Certification of New Heavy-Duty Motor Vehicle 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 Cummins Engine Company, Inc. 1996 model diesel engines are certified for use in motor vehicles with a manufacturer's gross vehicle weight rating (GVWR) over 14,000 pounds:

Fuel Type: Diesel

<u>Engine Family</u>	<u>Liters (Cubic Inches)</u>		<u>Exhaust Emission Control Systems and Special Features</u>
TCE661FJDABA (353H)	10.8	661	Charge Air Cooler Turbocharger Powertrain Control Module Oxidation Catalytic Converter

Engine models and codes are listed on attachments.

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

<u>Total Hydrocarbons</u>	<u>Carbon Monoxide</u>	<u>Nitrogen Oxides</u>	<u>Particulates</u>
1.3	15.5	4.0	0.05

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

<u>Engine Family</u>	<u>Total Hydrocarbons</u>	<u>Carbon Monoxide</u>	<u>Nitrogen Oxides</u>	<u>Particulates</u>
TCE661FJDABA (353H)	0.2	0.5	4.0	0.04

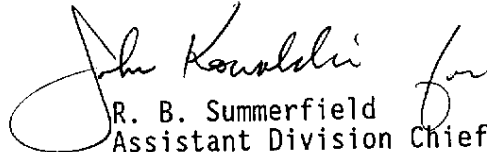
BE IT FURTHER RESOLVED: That for the listed engine models, the manufacturer has submitted the materials to demonstrate certification compliance with the Board's emission control system warranty provisions (Title 13, California Code of Regulations, Section 2035 et seq.).

BE IT FURTHER RESOLVED: That the listed engine family is certified for use in urban buses.

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 27th day of November 1995.


R. B. Summerfield
Assistant Division Chief
Mobile Source Division

1996 AIR RESOURCES BOARD SUPPLEMENTAL DATA SHEET
HEAVY-DUTY DIESEL-STANDARD ENGINES

Manufacturer Cummins Engine Company, Inc. Engine Family 353H TCE661FJDABA
 Displacement: _____ / 10.8 Liters _____ / 661 Cubic Inches
 Maximum Rated Power: 330 HP @ 2000 RPM Engine Configuration: I-6
 Ignition: Compression X Compression with Glow Plug _____ Spark _____
 Fuel Type(s): Dedicated X Flex-Fuel _____ Dual-Fuel _____ Diesel X M100 _____ M85 _____
 CNG _____ LNG _____ LPG _____ Other (specify) _____
 Diesel Cert Fuel: 13 CCR 2282 X 40 CFR 86.1313-90 _____ 40 CFR 86.1313-94 _____
 Primary Intended Service Class: LHD _____ MHD _____ HHD _____ Urban Bus X
 Exhaust ECS (include MFI, TC, CAC): OC (TC, CAC), Pcm
 (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.
M11-330E+ (2141)	330 @ 2000	169 (114)	3095731	3096662	N/A	3926265
M11-280E+ (2141)	280 @ 2000	139 (94)	3095731	3096662	N/A	3926265

Date Issued:

Revisions: _____