

State of California
AIR RESOURCES BOARD

EXECUTIVE ORDER A-21-66-2
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-45-3;

IT IS ORDERED AND RESOLVED: That the following Cummins Engine Company, Inc. 1991 model-year diesel engine family is certified for use in motor vehicles with a manufacturer's gross vehicle weight rating (GVWR) over 8,500 pounds:

<u>Engine Family</u>	<u>Displacement Liters (Cubic Inches)</u>	<u>Exhaust Emission Control Systems and Special Features</u>
MCE0611FZA2 (343D)	10 (611)	Powertrain Control Module Charge Air Cooler Turbocharger

Engine models and codes are listed on attachments.

The following are the certification emission standards for this engine family:

<u>Hydrocarbons gm/bhp-hr</u>	<u>Carbon Monoxide gm/bhp-hr</u>	<u>Nitrogen Oxides gm/bhp-hr</u>	<u>Average Particulates gm/bhp-hr</u>
1.3	15.5	5.0	0.25

The following are the certification emission values for this engine family:

<u>Engine Family</u>	<u>Hydrocarbons gm/bhp-hr</u>	<u>Carbon Monoxide gm/bhp-hr</u>	<u>Nitrogen Oxides gm/bhp-hr</u>	<u>Particulates Designated gm/bhp-hr</u>	<u>Particulates Certification gm/bhp-hr</u>
MCE0611FZA2 (343D)	0.3	2.3	4.9	0.20	0.18

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 Code of Regulations, Section 2035 et seq.).

BE IT FURTHER RESOLVED: That this engine is included in a diesel heavy-duty particulate averaging program as permitted in "California Exhaust Emission Standards for 1985 Subsequent Model Heavy-Duty Diesel Engines and Vehicles, Amended May 15, 1990", referenced section 86.091-11(a)(1)(iv)(C).

Engine 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.

This Executive Order cancels and replaces engine family MCE0611FZA2 (343D) in Executive Order A-21-66, issued on December 13, 1990.

This Executive Order is retroactive to the 16th day of July, 1991.

Executed at El Monte, California this 10th day of October, 1991.



R. B. Summerfield
Assistant Division Chief
Mobile Source Division

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Manufacturer Cummins Engine Company, Inc. Engine Family (343D) MCE0611FZA2
 Liter (CID) 10 (611) Eng. Type I-6
 Emission Control Sys. & Special Features PCME (TC, CAC)
 (Use abbreviations per SAE J1930 Jun88)

Engine Model (Eng. Code)	Fuel Injection Pump Mfr. Part Number	Injector Mfr. Part Number	Maximum Rated HP and RPM	Fuel Rate at Maximum HP mm ³ /stroke	Particulate Trap Mfr. Part Number
L10-330E (1512)	Cummins	Cummins 3071534	330@1600	202	NA

Revisions:
031390
030186