

State of California
AIR RESOURCES BOARD

EXECUTIVE ORDER A-21-63
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. 1990 model-year diesel engines are 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 (Special Features)</u>
LCE0505FAC5 (413B)	8.3	(505)	Smoke Puff Limiter (Turbocharger) (Charge Air Cooler)

Engine models and codes are listed on attachments.

The following are the certification emission standards for these engine families:

<u>Hydrocarbons gm/bhp-hr</u>	<u>Carbon Monoxide gm/bhp-hr</u>	<u>Nitrogen Oxides gm/bhp-hr</u>	<u>Particulates gm/bhp-hr</u>
1.3	15.5	6.0	0.60

The following are the certification emission values for these engine families:

<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 gm/bhp-hr</u>
LCE0505FAC5 (413B)	0.3	1.3	4.3	0.24

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.)

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

CUMMINS ENGINE COMPANY, INC.

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The Bureau of Automotive Repair will be notified by copy of this order and attachments.

Executed at El Monte, California this 6 day of September, 1990.

John Henderson
for R. B. Summerfield
Assistant Division Chief
Mobile Source Division

1990 AIR RESOURCES BOARD SUPPLEMENTAL DATA SHEET
 HEAVY-DUTY DIESEL ENGINES

Manufacturer Cummins Engine Company, Inc. Engine Family LCE0505FAC5 (413B)
 Liter (CID) 8.3 (505) Eng. Type Inline 6
 Emission Control Sys. and (Special Features) SPL. (TC. CAC)

Engine Model	Fuel Injection Pump Mfr. Part Number	Injector Mfr. Part Number	Maximum Rated HP at RPM	Fuel Rate mm ³ /stroke (lbs/Hr)	Maximum Rated Torque at RPM	Fuel Rate mm ³ /stroke (lbs/Hr)
C8.3-300 CPL 1406	Robert Bosch 3916626	Robert Bosch 3920140	300@2200	151(111.7)	820@1300	150(65.8)
C8.3-275 CPL 1262	3916627 3916629	3919058 3919058	275@2000 275@1800	148(99.6) 163(99.0)	800@1300 860@1300	147(64.5) 159(69.6)
C8.3-250 CPL 1262	3917089 3916628	3919058 3919058	250@2400 250@2200	125(101.2) 127(93.9)	660@1300 800@1300	125(54.9) 147(64.5)
C8.3-210 CPL 1263	3917088	3919058	210@2400	102(82.8)	605@1300	114(50.0)

Date of Issue _____ Revisions:

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