

State of California
AIR RESOURCES BOARD

EXECUTIVE ORDER A-21-70

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. 1992 model diesel engines are certified for use in motor vehicles with a manufacturer's gross vehicle weight rating (GVWR) over 8,500 pounds:

Fuel Type: Diesel

<u>Engine Family</u>	<u>Liters (Cubic Inches)</u>		<u>Exhaust Emission Control Systems and Special Features</u>
NCE0855FZB6 (093N)	14	(855)	Smoke Puff Limiter Charge Air Cooler Turbocharger
NCE0855FZD8 (093Q)	14	(855)	Smoke Puff Limiter Charge Air Cooler Turbocharger
NCE0611FZA1 (343D)	10	(611)	Powertrain Control Module Charge Air Cooler Turbocharger
NCE0611FZB2 (343E)	10	(611)	Smoke Puff Limiter Charge Air Cooler Turbocharger
NCE0611FZD4 (343H)	10	(611)	Powertrain Control Module Charge Air Cooler Turbocharger

Engine models and codes are listed on attachments.

The certification emission standards for these engine families in grams per brake-horsepower-hour are as follows:

<u>Total Hydrocarbons</u>	<u>Carbon Monoxide</u>	<u>Nitrogen Oxides</u>	<u>Particulates (Average)</u>
1.3	15.5	5.0	0.25

The certification emission values and particulates emission limits for these engine families in grams per brake-horsepower-hour are as follows:

Engine Family	Total Hydrocarbons	Carbon Monoxide	Nitrogen Oxides	Particulates Emission Limit	Certification
NCE0855FZB6 (093N)	0.5	1.9	4.7	0.23	0.22
NCE0855FZD8 (093Q)	0.6	2.2	4.5	0.23	0.21
NCE0611FZA1 (343D)	0.3	2.3	4.9	0.20	0.18
NCE0611FZB2 (343E)	0.7	2.4	4.8	0.29	0.25
NCE0611FZD4 (343H)	0.3	3.2	3.7	0.33	0.33

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 these engines are included in a diesel heavy-duty particulate averaging program as permitted in "California Exhaust Emission Standards for 1985 and Subsequent Model Heavy-Duty Diesel Engines and Vehicles, as Amended on May 15, 1990", referenced section 86.091-11(a)(1)(iv)(c).

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 30th day of October, 1991.



R. B. Summerfield
Assistant Division Chief
Mobile Source Division

1992 AIR RESOURCES BOARD SUPPLEMENTAL DATA SHEET
HEAVY-DUTY DIESEL ENGINESPage 1Manufacturer Cummins Engine Company, Inc. Engine Family (093N) NCE0855FZB6Liter (CID) 14 (855) Eng. Type I-6Emission Control Sys. & Special Features SPL (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
N14-410 (1405)	Cummins	Cummins 3073574	410@1600	254	NA
N14-370 (1374)	Cummins	Cummins 3073572	370@1600	232	NA
N14-350 (1374)	Cummins	Cummins 3073572	350@1600	215	NA

Revisions:
031390
030186SUBMITTED
SEP 25 1991

1992 AIR RESOURCES BOARD SUPPLEMENTAL DATA SHEET
HEAVY-DUTY DIESEL ENGINESPage 1Manufacturer Cummins Engine Company, Inc. Engine Family (0930) NCE0855FZD8Liter (CID) 14 (855) Eng. Type I-6Emission Control Sys. & Special Features SPL (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
N14-350P (1380)	Cummins	Cummins 3073571	350@1600	222	NA
N14-330 (1380)	Cummins	Cummins 3073571	330@1600	211	NA
N14-330P (1395)	Cummins	Cummins 3073569	330@1600	211	NA
N14-310P (1395)	Cummins	Cummins 3073569	310@1600	198	NA

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1992 AIR RESOURCES BOARD SUPPLEMENTAL DATA SHEET
HEAVY-DUTY DIESEL ENGINES

Manufacturer Cummins Engine Company, Inc. Engine Family (343D) NCE0611FZA1

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

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1992 AIR RESOURCES BOARD SUPPLEMENTAL DATA SHEET
HEAVY-DUTY DIESEL ENGINESPage 1Manufacturer Cummins Engine Company, Inc. Engine Family (343E) NCE0611FZB2Liter (CID) 10 (611) Eng. Type I-6Emission Control Sys. & Special Features SPL (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
() L10-310 (1446)	Cummins	Cummins 3074250	310@1600	189	NA
() L10-300 (1446)	Cummins	Cummins 3074250	310@1700	173	NA
() L10-280 (1447)	Cummins	Cummins 3074251	280@1600 280@1700	171 164	NA NA
() L10-260 (1448)	Cummins	Cummins 3074252	260@1600 260@1700	158 150	NA NA

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1992 AIR RESOURCES BOARD SUPPLEMENTAL DATA SHEET
HEAVY-DUTY DIESEL ENGINES

Manufacturer Cummins Engine Company, Inc. Engine Family (343H) NCE0611FZD4

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
L10-310E (1514)	Cummins	Cummins 3071534	310@1600	191	NA

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