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:

<u>Fuel Type</u>: Diesel

•			Exhaust Emission &
Engine Family	Liters	(Cubic Inches)	Exhaust Emission Control Systems and Special Features
NCE0855 FZB6 (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
NCEO611FZB2 (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:

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

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

Engi ne Family	Total <u>Hydrocarbons</u>	Carbon <u>Monoxide</u>	Nitrogen Oxides Emi	Particul ssion Limit	ates 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 ha; 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 heavyduty 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 30 day of October, 1991.

R. B. Summerfield Assistant Division Chief Mobile Source Division

					Page1
Manufacturer	Cummins Engi	ne Company, Inc	<u>c.</u> Engine Fa	amily <u>(093N)</u>	NCE0855FZB6
Liter (CID)	<u>14</u> (8 5 5)	Eng. Type _	<u>1-6</u>	
Emission Cont (Use abbrevia	crol Sys. & Spations per SAE	ecial Feature: J1930 Jun88)	SPL (7	CC, CAC)	
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			
(40,4)		3073572	370@1600	232	NA
N14-350 (1374)	Cummins	Cummine 3073572	350@1600	215	NA

E.O.#	A-21-70	
# . U . F		

					Page1
Manufacturer	Cummins Engi	ne Company, Inc	. Engine Fa	mily <u>(0930</u>	NCE0855FZD8
Liter (CID)		855) E	ng. Type	1-6	
Emission Cont (Use abbrevia	trol Sys. & Spations per SAE	ecial Features J1930 Jun88)	SPL (TC	CAC)	
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

		•		•	
Manufacturer Liter (CID) Emission Con (Use abbrevi		ine Company, In 611) Pecial Feature 5 J1930 Jun88)	Eng. Type _	Tamily(343) I-6 (TC, CAC)	Page 1
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
10-330E 1512)	Cummins	Cummins 3071534	330@1600	202	NA

031390 030186

Emission Con	trol Sys. & Sp	andal m	Ing. Type	I-6	
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	171	NA
)L10-260 (1448)	Cummins	Cummins 3074252	280@1700 260@1600 260@1700	164 158 150	NA NA NA

E	۰.	. 1	ŧ	Α-	21	-74	9

M					Page <u>1</u>
Manufacturer	Cummins Engi	ne Company.Inc	2. Engine F	amily(343H) NCEO611FZD4
Liter (CID)	10 (<u>611_)</u>	Eng. Type _		
Emission Con (Use abbrevia	trol Sys. & Sp ations per SAE	ecial Features J1930 Jun88)	PCME	(TC, CAC)	
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