

State of California
AIR RESOURCES BOARD

EXECUTIVE ORDER A-21-59
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>
LCE0611FZB4 (343E)	10	(611)	(Turbocharger) (Charge Air Cooler)
LCE0611FZA3 (343D)	10	(611)	Powertrain Control Module (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	0.6

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>
LCE0611FZB4 (343E)	0.5	1.9	5.0	0.3
LCE0611FZA3 (343D)	0.2	3.1	4.6	0.2

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.)

CUMMINS ENGINE COMPANY, INC.

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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 24th day of January, 1990.



K. D. Drachand, Chief
Mobile Source Division

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

Manufacturer Cummins Engine Company, Inc. Engine Family LCE0611FZA3 (343D)
 Liter (CID) 10 (611) Eng. Type Inline 6
 Emission Control Sys. and (Special Features) PCME (TC, CAC)

Engine Model	Electronic Control Module 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)
L10-330E CPL1161	Cummins 3615336 3654040	Cummins 3068357	330@1600	196(106)	1250@1200	235(95)
L10-310E CPL1347	Cummins 3654040	Cummins 3070551	310@1600	189(102)	1150@1200	215(87)
L10-310E CPL1367	Cummins 3618046	Cummins 3071534	310@1600	189(102)	1150@1200	217(88)
L10-330E CPL1348	Cummins 3618046	Cummins 3071534	330@1600	198(107)	1250@1200	234(95)

Date of Issue _____ Revisions:

030186

REVISED
 MAY 11 1990

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

Manufacturer Cummins Engine Company, Inc. Engine Family LCE0611FZB4 (343E)
 Liter (CID) 10 (611) Eng. Type Inline 6
 Emission Control Sys. and (Special Features) (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)
L10-310 CPL1241	Cummins 3883141	Cummins 3068086	310@1600	189(102)	1150@1200	217(88)
(1)L10-310 CPL1349	Cummins 3883548 3883542 3883550 3883546	Cummins 3070422 3072029(3)	310@1600	187(101)	1150@1200	217(88)
(1)L10-300 CPL1349	SAME	SAME	300@1700	173(99)	1150@1200	217(88)
(2)L10-280 CPL1362	Cummins 3883819 3883918 3883902 3883914	Cummins 3071565 3072030(3)	280@1600	171(92)	1050@1200	195(79)
(2)L10-280 CPL1362	SAME	SAME	280@1700	164(94)	1050@1200	195(79)
(4)L10-260 CPL1373	Cummins 3892211 3892212 3892213 3892214	Cummins 3072030	260@1600	158(85)	975@1200	183(74)
(4)L10-260 CPL1373	Cummins 3892215 3892216 3892217 3892218	SAME	260@1700	150(86)	975@1200	183(74)

Date of Issue 01-26-90 Revisions: (1)11-08-89
 (2)03-06-90
 (3)03-20-90
 (4)06-29-90

REVISED
 JUN 29 1990