## State of California AIR RESOURCES BOARD

## EXECUTIVE ORDER A-21-58 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:

Engine Family		acement ubic Inches)	Exhaust Emission Control Systems (Special Features)
LCE0505FAB4 (413A	) 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 this engine family:

Hydrocarbons gm/bhp-hr	Carbon Monoxide <b>g</b> m/bhp-hr	Nitrogen Oxides 	Particulates gm/bhp-hr
1.3	15.5	6.0	0.6

The following are the certification emission values for this engine family, except that compliance with the carbon monoxide emission standard has been demonstrated pursuant to the Code of Federal Regulations, Title 40, Part 85, Subpart A, Section 86.088-23(c)(2)(1):

Engine Family	Hydrocarbons	Nitrogen Oxides	Particulates
	_gm/bhp-hr	gm/bhp-hr	<u>gm/bhp-hr</u>
LCE0505FAB4 (413A)	0.5	3.7	0.5

BE IT FURTHER RESOLVED: That the Executive Offricer 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.

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

Executed at El Monte, California this \_\_\_\_\_ da

\_ day\_of\_December, 1989.

K. D. Drachand, Chief Mobile Source Division

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

Manufac Liter (		ns Engine Com		Engine Family TypeIr	LCE050	5FAB4 (413A)
Emissio	n Control Sys	. and (Specia	l Features)	SPL	(TC, IC	)
Engine Model	Fuel Injection Pump Mfr. Part Number	Injector Mfr. Part Number	Maximum Rated HP at RPM	Fuel Rate mm <sup>3</sup> /stroke (1bs/Hr)	Maximum Rated Torque at RPM	Fuel Rate mm <sup>3</sup> /stroke (lbs/Hr)
	Robert Bosch	Robert Boscl	n ,			
CPL0982	3914125、 3913639	3908513 3908513	250@2200 240@2200	121.6(90.2) 116.7(86.6)	775@1300 775@1300	
CPL1290	3916626 3916630	3917702 3917702	285@2400 225@2400	143.1(115.8) 117.2 (94.9)		155.3(68.1) 131.3(57.5)

Date	of	Issue		Revisions:
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