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State of California AIR RESOURCES BOARD

EXECUTIVE ORDER A-21-64 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	Displacement <u>Liters (Cubic Inches)</u>		Exhaust Emission Control System <u>(Special Features)</u>		
LCE0359FAB0 (403A) 5.9	(359)	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:

Hydrocarbons _gm/bhp-hr	Carbon Monoxide gm/bhp-hr	Nitrogen Oxides gm/bhp-hr	Particulates gm/bhp-hr
1.3	15.5	6.0	0.60

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

Engine Family	Hydrocarbons	Monoxide	Nitrogen Oxides	Particulates
	_gm/bhp-hr	gm/bhp-hr	gm/bhp-hr	gm/bhp-hr
LCE0359FAB0 (40	3A) 0.3	1.1	4.9	0.25

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

day of November, 1990.

R. B. Summerfield Assistant Division Chief Mobile Source Division

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

Manufacturer Cummins Engine Company, Inc. Engine Family LCE0359FAB0(403A) Liter (CID) 5.9 (359) 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 /stroke (lbs/Hr)	Maximum Rated Torque at RPM	Fuel Rate mm /stroke (lbs/Hr)
	Robert Bosch	Robert Boscl	n	· · ·		·
B5.9-160 CPL1351	3813442(12V) 3918964(24V) 3918991(12V) 3918992(24V)	3918965	160@2500	74(62.3)	400@1700	78(44.7)

Date of Issue _____ Revisions:

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