State of California
AIR RESOURCES BOARD

EXECUTIVE ORDER A-21-53
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. 1989 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 Liters (Cubic Inches)	Exhaust Emission Control Systems (Special Features)
KCE03.4EAA1 (472)	3.4 (210)	Smoke Puff Limiter (Diesel Injection - Prechamber) (Turbocharger)

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, 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)(i):

Engine Family	Hydrocarbons gm/bhp-hr	Nitrogen Oxides gm/bhp-hr	Particulates gm/bhp-hr
KCE03.4EAA1	0.6	4.3	0.58

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.

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

Executed at El Monte, California this 2nd day of November, 1988.

K. D. Drachand, Chief
Mobile Source Division

1989 AIR RESOURCES BOARD SUPPLEMENTAL DATA SHEET
HEAVY-DUTY DIESEL ENGINES

Manufacturer Cummins Engine Company, Inc. Engine Family KCE03.4EAA1

Liter (CID) 3.434 (210) Eng. Type Inline, 6 cylinders

Emission Control Sys. and (Special Features) DIP (TC), SPL

	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)
	6AT3.4	Robert Bosch	Robert Bosch				
	CPL #s						
	1177	C0147046515	C0147072302	120@3600	50.3(61.1)	221@2000	54.3(36.6)
(1)	1178	C0147046518	C0147072302	102@3600	43.5(52.7)	197@1600	46.5(25.1)
	1206	C0147046522	C0147072302	105@3000	51.1(51.8)	215@1600	52.2(28.2)

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Date of Issue _____ Revisions:

SUBMITTED OCT 03 1988