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#### State of California AIR RESOURCES BOARD

## EXECUTIVE ORDER A-27-59 Relating to Certification of New Heavy-Duty Motor Vehicle Engines

#### MACK TRUCKS, 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 Mack Trucks, 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		lacement Cubic Inches)	Exhaust Emission Control Systemsand Special Features
LMT0728FAF2 (24)	11.9	(728)	Turbocharger Charge Air Cooler
LMT0728FAG3 (25)	11.9	(728)	Turbocharger Charge Air Cooler

Engine models and codes are listed on attachments.

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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 <u>gm/bhp-hr</u>
1.3	15.5	6.0	<u>917 onp-11</u> 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)(1):

Engine Family LMT0728FAF2	Hydrocarbons <u>gm/bhp-h</u> r 0.26	Nitrogen Oxides <u>gm/bhp</u> - <u>hr</u> 5.7	Particulates <u>gm/bhp-hr</u> 0.37
LMT0728FAG3	0.05	5.5	0.36

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MACK TRUCKS, INC.

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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 provisions (Health and Safety Code Section 43205.5 and Title 13, California Code of Regulations, 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 25 day of October, 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 Mack Trucks, Inc. Engine Family (24) LMT0728FAF2 Liter (CID) 11.9 (728 CID) Eng. Type<u>6 Cylinder In-Line</u>

Engine Model	Fuel Injection Pump Mfr. Part Number 313GC	Injector Mfr. Part Number 114GC	Maximum Rated HP at RPM	Fuel Rate mm3/Stroke (lbs/Hr)	Maximum Rated Torque at RPM	Fuel Rate mm3/Stroke (lbs/Hr)
EM7-275	Bosch 5185-P22	Bosch 323	275 @ 1750	162.5 (95.1)	1305 @ 1020	236.9 (80.8)
EM7-250	Bosch 5179-P26	Bosch 323	250 @ 1750	146.9 (86.0)	1160 @ 1020	216.9 (74.0)
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Date

Date\_\_\_\_EPA REP\_\_\_\_

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

Manufacturer <u>Mack Trucks, Inc.</u> Engine Family ( <u>25</u>) LMT0728FA63

Liter (CID) 11.9 (728 CID) Eng. Type 6 Cylinder In-Line

Date

Date\_\_\_\_\_EPA REP\_\_\_\_

Emission Control Sys. and (Special Features) <u>Turbocharge</u> Charged Air Coolec

Engine Model	Fuel Injection Pump Mfr. Part Number	Injector Mfr. Part Number	Maximum Rated HP at RPM	Fuel Rate mm3/Stroke (lbs/Hr)	Maximum Rated Torque at RPM	Fuel Rate mm3/Stroke (lbs/Hr)
	313GC	114GC				
E7-350	Bosch 5185-P2	Bosch 323	350 @ 1800	198.3 (119.4)	1277 @ 1250	228.9 (95.7)
E7-300	Bosch 5185-P14	Bosch 323	300 @ 1700	174.1 (99.0)	1112 @ 1200	209.3 (84.0)
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