

State of California
AIR RESOURCES BOARD

EXECUTIVE ORDER A-27-61
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. 1992 model 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</u> <u>Liters (Cubic Inches)</u>		<u>Exhaust Emission Control</u> <u>Systems and Special Features</u>
NMT0728FAD9 (25)	11.9	(728)	Turbocharger Charge Air Cooler
NMT0728FAEX (26)	11.9	(728)	Turbocharger Charge Air Cooler <i>TECM</i>
NMT0728FAF0 (27)	11.9	(728)	Turbocharger Charge Air Cooler <i>ECM</i>
NMT0728FAG1 (29)	11.9	(728)	Turbocharger Charge Air Cooler
NMT0728FAH2 (31)	11.9	(728)	Turbocharger Charge Air Cooler
NMT0728FAL8 (34)	11.9	(728)	Turbocharger Charge Air Cooler

Engine models and codes are listed on attachments.

The following are the certification emission standards for these engine families in grams per brake-horsepower-hour:

<u>Hydrocarbons</u>	<u>Carbon Monoxide</u>	<u>Nitrogen Oxides</u>	<u>Particulates</u>
1.3	15.5	5.0	0.25

The following are the certification emission values for these engine families in grams per brake-horsepower-hour, except that compliance with the carbon monoxide emission standard has been demonstrated pursuant to Title 40, Code of Federal Regulations, Part 86, Subpart A, Section 86.088-23(c)(2)(i):

<u>Engine Family</u>	<u>Hydrocarbons</u>	<u>Nitrogen Oxides</u>	<u>Particulates</u>
NMT0728FAD9	0.1	4.7	0.20
NMT0728FAEX	0.1	4.8	0.15
NMT0728FAF0	0.1	4.4	0.24
NMT0728FAG1	0.1	4.4	0.19
NMT0728FAH2	0.2	4.4	0.19
NMT0728FAL8	0.1	4.7	0.20

BE IT FURTHER RESOLVED: That for the listed engine models, the manufacturer has submitted the materials to demonstrate certification compliance with the Board's emission control system warranty provisions (Title 13, California Code of Regulations, Section 2035 et seq.).

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 21 day of April, 1992.

Raphael Summerfield
for R. B. Summerfield
Assistant Division Chief
Mobile Source Division

1992 AIR RESOURCES BOARD SUPPLEMENTAL DATA SHEET
HEAVY-DUTY DIESEL ENGINES

Manufacturer MACK TRUCKS, INC. Engine Family 25 (NMT0728FAD9)
 Liters (CID) 11.9 (729) Fuel Type DIESEL Engine Config. I-6
 Exhaust ECS & Special Features TC, CAC
 (Use abbreviations per SAE J1930 Jun88)

Engine Model (Eng. Code)	Fuel Pump Mfr. P/N 313GC	Injector Mfr. P/N 114GC	Rated HP @ RPM	Fuel Rate @ Rated HP cc/stroke	Part. Trap/ Catalyst Mfr. P/N
E7-300	BOSCH 5188-P8	BOSCH 325	300 @ 1950	182.2	N/A
EM7-275	BOSCH 5188-P4	BOSCH 325-P3	275 @ 1750	175.3	N/A
E7-250	BOSCH 5188-P6	BOSCH 325-P3	250 @ 1950	150.8	N/A
EM7-250	BOSCH 5188-P2	BOSCH 325-P3	250 @ 1750	161.0	N/A

1992 AIR RESOURCES BOARD SUPPLEMENTAL DATA SHEET
 HEAVY-DUTY DIESEL ENGINES

Manufacturer MACK TRUCKS, INC. Engine Family 26 (NMT0728FAEX)

Liters (CID) 11.9 (729) Fuel Type DIESEL Engine Config. I-6

Exhaust ECS & Special Features TC, CAC
 (Use abbreviations per SAE J1930 Jun88)

Engine Model (Eng. Code)	Fuel Pump Mfr. P/N 313GC	Injector Mfr. P/N 114GC	Rated HP @ RPM	Fuel Rate @ Rated HP cc/stroke	Part. Trap/ Catalyst Mfr. P/N
E7-400	BOSCH 5191-P1 5201-P1	BOSCH 325 325	400 @ 1800	226.8	N/A
E7-350	BOSCH 5191-P1 5201-P1	BOSCH 325 325	350 @ 1800	192.3	N/A

1992 AIR RESOURCES BOARD SUPPLEMENTAL DATA SHEET
 HEAVY-DUTY DIESEL ENGINES

Manufacturer MACK TRUCKS, INC. Engine Family 27 (NMT0728FAFO)

Liters (CID) 11.9 (729) Fuel Type DIESEL Engine Config. I-6

Exhaust ECS & Special Features TC, CAC
 (Use abbreviations per SAE J1930 Jun88)

Engine Model (Eng. Code)	Fuel Pump Mfr. P/N	Injector Mfr. P/N	Rated HP @ RPM	Fuel Rate @ Rated HP cc/stroke	Part. Trap/ Catalyst Mfr. P/N
EM7-300	BOSCH 5191-P1 5201-P1	BOSCH 325-P2 325-P2	300 @ 1750	169.9	N/A
EM7-275	BOSCH 5191-P1 5201-P1	BOSCH 325-P3 325-P3	275 @ 1750	156.2	N/A
EM7-250	BOSCH 5191-P1 5201-P1	BOSCH 325-P3 325-P3	250 @ 1750	143.3	N/A

1992 AIR RESOURCES BOARD SUPPLEMENTAL DATA SHEET
 HEAVY-DUTY DIESEL ENGINES

Manufacturer MACK TRUCKS, INC. Engine Family 29 (NMT0728FAG1)

Liters (CID) 11.9 (729) Fuel Type DIESEL Engine Config. I-6

Exhaust ECS & Special Features TC, CAC
 (Use abbreviations per SAE J1930 Jun88)

Engine Model (Eng. Code)	Fuel Pump Mfr. P/N	Injector Mfr. P/N	Rated HP @ RPM	Fuel Rate @ Rated HP cc/stroke	Part. Trap/ Catalyst Mfr. P/N
E7-350	BOSCH 5188-P12	BOSCH 325	350 @ 1800	221.4	N/N

1992 AIR RESOURCES BOARD SUPPLEMENTAL DATA SHEET
 HEAVY-DUTY DIESEL ENGINES

Manufacturer MACK TRUCKS, INC. Engine Family 31 (NMT0728FAH2)

Liters (CID) 11.9 (729) Fuel Type DIESEL Engine Config. I-6

Exhaust ECS & Special Features TC, CAC
 (Use abbreviations per SAE J1930 Jun88)

Engine Model (Eng. Code)	Fuel Pump Mfr. P/N	Injector Mfr. P/N	Rated HP @ RPM	Fuel Rate @ Rated HP cc/stroke	Part. Trap/ Catalyst Mfr. P/N
E7-300	BOSCH 5191-P1 5201-P1	BOSCH 325-P2 325-P2	300 @ 1700	171.8	N/A

1992 AIR RESOURCES BOARD SUPPLEMENTAL DATA SHEET
 HEAVY-DUTY DIESEL ENGINES

Manufacturer MACK TRUCKS, INC. Engine Family 34 (NMT0728FAL3)

Liters (CID) 11.9 (729) Fuel Type DIESEL Engine Config. I-6

Exhaust ECS & Special Features TC, CAC
 (Use abbreviations per SAE J1930 Jun88)

Engine Model (Eng. Code)	Fuel Pump Mfr. P/N	Injector Mfr. P/N	Rated HP @ RPM	Fuel Rate @ Rated HP cc/stroke	Part. Trap/ Catalyst Mfr. P/N
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EM7-300	BOSCH 5188-P10	BOSCH 325-P2	300 @ 1750	193.7	N/A
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