

State of California  
AIR RESOURCES BOARD

EXECUTIVE ORDER A-194-9  
Relating to Certification of New Heavy-Duty Motor Vehicle Engines

IVECO B.V.

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 Iveco B.V. 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:

<u>Engine Family</u>	<u>Displacement Liters (Cubic Inches)</u>		<u>Exhaust Emission Control Systems (Special Features)</u>
LVE0238FAA8	3.9	(238)	Smoke Puff Limiter (Turbocharger) (Charge Air Cooler)
LVE0358EAAX	5.9	(358)	Smoke Puff Limiter (Turbocharger)

Engine models and codes are listed on attachments.

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

<u>Hydrocarbons gm/bhp-hr</u>	<u>Carbon Monoxide gm/bhp-hr</u>	<u>Nitrogen Oxides gm/bhp-hr</u>	<u>Particulates gm/bhp-hr</u>
1.3	15.5	6.0	0.60

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

<u>Engine Family</u>	<u>Hydrocarbons gm/bhp-hr</u>	<u>Carbon Monoxide gm/bhp-hr</u>	<u>Nitrogen Oxides gm/bhp-hr</u>	<u>Particulates gm/bhp-hr</u>
LVE0238FAA8	0.5	2.8	5.0	0.54
LVE0358EAAX	0.7	2.7	5.4	0.47

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 (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 26<sup>th</sup> day of January, 1990.



K. D. Drachand, Chief  
Mobile Source Division

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HEAVY-DUTY DIESEL ENGINES

Manufacturer IVECO B.V. Engine Family IVE0358EAAX  
 Liter (CID) 5.9 (358) Eng. Type I6  
 Emission Control Sys. and (Special Features) SPL (TC )

Engine Model	Fuel Injection Pump Mfr. Part Number	Injector Mfr. Part Number	Maximum Rated HP at RPM	Fuel Rate mm <sup>3</sup> /stroke (lbs/Hr)	Maximum Rated Torque at RPM	Fuel Rate mm <sup>3</sup> /stroke (lbs/Hr)
8060.25.221 .225	Robert Bosch 482-4346	Robert Bosch 482-2812 or 98416712	155 @ 2700	68.9 (61.7)	354 @ 1600	77.3 (41.2)
8060.25.241 .243 .244 .246 .247	Robert Bosch 482-4345	Robert Bosch 482-2812 or 98416712	135 @ 2700	62.0 (56.2)	347 @ 1600	71.1 (37.9)

Date of Issue \_\_\_\_\_ Revisions:

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

Manufacturer IVECO B.V. Engine Family LVE0238FAA8  
 Liter (CID) 3.9 (238) Eng. Type I4  
 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 <sup>3</sup> /stroke (lbs/Hr)	Maximum Rated Torque at RPM	Fuel Rate mm <sup>3</sup> /stroke (lbs/Hr)
8040.45.281 .283 .284 .287	Robert Bosch 482-4342	Robert Bosch 98416712	123 @ 2700	80.0 (47.8)	275 @ 1600	87.5 (32.3)
8040.45.261 .263 .264 .276	Robert Bosch 482-4342	Robert Bosch 98416712	105 @ 2700	68.7 (41.2)	232 @ 1600	76.9 (27.3)

Date of Issue \_\_\_\_\_ Revisions: