State of California
AIR RESOURCES BOARD

EXECUTIVE ORDER U-R-15-8

Relating to Certification of New Heavy-Duty Off-Road Equipment Engines

IVECO N.V.

Pursuant to the authority vested in the Air Resources Board by Sections 43000.5, 43013 and 43018 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-45-9;

IT IS ORDERED AND RESOLVED: That the following Iveco N.V. 1997 model-year engine, with rated power between 175 and 750 horsepower, and exhaust emission control systems are certified as described below for use in heavy-duty off-road equipment:

Typical Equipment Usage: Havester, Generator

Fuel Type: Diesel

Engine Family	Liters	(Cubic Inches)	Exhaust Emission Control Systems and Special Features
VVE14.R6DARA	13.8	(842)	Turbocharger Smoke Puff Limiter Charge Air Cooler

Engine models and codes are listed on attachments. Production engines shall be in all material respects the same as those for which certification is granted.

The total hydrocarbons (THC), carbon monoxide (CO), nitrogen oxides (NOx), and particulate matter (PM) certification exhaust emission standards, in grams per brake horsepower-hour (g/bhp-hr), and the opacity of smoke emission standards, in percent (%), during acceleration (Accel), lugging (Lug), and peak (Peak) modes, for this engine family are (Title 13, California Code of Regulations, Section 2423):

Exhaust Emissions (g/bhp-hp)				Smoke Opacity (%)		
THC	CO	NOx	PM	Accel	Lug	Peak
1.0	8.5	6.9	0.4	20	15	50

The THC, CO, NOx and PM exhaust emission certification values, in g/bhp-hr, and the opacity of smoke emission certification values, in percent (%), for this engine family are:

	Exhaust Emissions (g/bhp-hr)				Smoke Opacity (%)		
Engine Family	THC	CO	NOx	PM	Accel	Lug	Peak
VVE14.R6DARA	0.3	1.0	4.3	0.2	20	11	36

BE IT FURTHER RESOLVED: That the listed engine models comply with the "Exhaust Emission Standards and Test Procedures--Heavy-Duty Off-Road Diesel Cycle Engines" (Title 13, California Code of Regulations, Section 2423) for the aforementioned model year.

BE IT FURTHER RESOLVED: That the listed engine models also comply with the "Emission Control Labels--1996 and Later Heavy-Duty Off-Road Diesel Cycle Engines" (Title 13, California Code of Regulations, Section 2424) for the aforementioned model year.

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 2425 et seq.).

Engines certified under this Executive Order must conform to all applicable California emission regulations.

Executed at El Monte, California this 9th day of January 1997.

Raphael Susnowitz

for R. B. Summerfield, Chief
Mobile Source Operations Division

E.O. # U-R-15-8

1997 AIR RESOURCES BOARD SUPPLEMENTAL DATA SHEET
HEAVY-DUTY OFF-ROAD DIESEL ENGINES

Manufacturer: IVECO N.V. Engine Family: VVE14.R6DARA

Displacement: 13.798/841.98 Liters/Cubic Inches Eng. Config: I-6

All Codes in Eng Fam: CA____ 49S____ 50S X Cert Test Procedures: ARB__ EPA X

Valves/Ports per Cylinder: 2 valves/cyl. Strokes per Combustion Cycle: 4-stroke

Maximum Rated Power: 493 HP (368 KW) @ 1950 RPM

Ignition: Compression ____ Compression with Glow Plug X Spark ____

Fuel Type(s): Dedicated X Flex-Fuel____ Dual-Fuel____ Diesel X M100 ____ M85____

CNG ____ LNG____ LPG____ Other (specify) ____

Diesel Cert Fuel: 40 CFR 86.1313-94 X Other (specify) ____

Primary Service Equipment: Forage Harvester, Generating Set

Exhaust ECS (e.g., MFI, TC, CAC): SPL, TC, CAC
(use abbreviations per SAE J1930 JUN93)

Engine Model (Eng Code)	Rated HP @ RPM	Fuel Rate @ Rated HP mm^3 / stroke (lbs/hr)	Fuel Pump & Injector Part no.	ECM/PCM Part no.	EGR Valve Part no.	PTOX/ Catalytic Converter Part no.
8215.42.985	350@1950	202 (129.5)	PE6P130A 720RS7197 0402646669 / KBEL 111 S75 516	RQV 425... 975PA1292	N/A	N/A
8215.42.5985	493@1950	288 (186)	PE6P130A 720RS7339 0402646649 / KBEL 111 S75 555	RQV 425.. 975	N/A	N/A
8215.42.5986	460@1800	282 (169.4)	PE6P130A 700RS7225-1 0402616805 / KBEL 111 S75 555	ACD 275D	N/A	N/A

Date Issued:

Revisions: