

UNITED STATES ENVIRONMENTAL PROTECTION AGENCY  
WASHINGTON, DC 20460

2004 Model Year Certificate of Conformity

Manufacturer: **IVECO NV**  
Certificate Number: **VEX-NR6-04-07**  
Effective Date: **11/26/03**  
Date Issued: **11/26/03**



Merrylin Zaw-Mon, Director  
Certification and Compliance Division  
Office of Transportation and Air Quality

Pursuant to Section 213 of the Clean Air Act (42 U.S.C. section 7547) and 40 CFR 89, and subject to the terms and conditions prescribed in those provisions, this certificate of conformity is hereby issued with respect to the test engines which have been found to conform to applicable requirements and which represent the following nonroad engines, by engine family, more fully described in the documentation required by 40 CFR Part 89 and produced in the stated model year.

**Nonroad Diesel Engine Family: 4VEXL06.7DCR**

This certificate of conformity covers only those new nonroad compression-ignition engines which conform in all material respects to the design specifications that applied to those engines described in the documentation required by 40 CFR Part 89 and which are produced during the model year stated on this certificate of the said manufacturer, as defined in 40 CFR Part 89. This certificate of conformity does not cover nonroad engines imported prior to the effective date of the certificate.

It is a term of this certificate that the manufacturer shall consent to all inspections described in 40 CFR 89.129-96 and 89.506-96 and authorized in a warrant or court order. Failure to comply with the requirements of such a warrant or court order may lead to revocation or suspension of this certificate for reasons specified in 40 CFR Part 89. It is also a term of this certificate that this certificate may be revoked or suspended or rendered void ab initio for other reasons specified in 40 CFR Part 89.

This certificate does not cover nonroad engines sold, offered for sale, or introduced, or delivered for introduction, into commerce in the U.S. prior to the effective date of the certificate.



Pursuant to the authority vested in the Air Resources Board by Sections 43013, 43018, 43101, 43102, 43104 and 43105 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-02-003;

**IT IS ORDERED AND RESOLVED:** That the following compression-ignition engine and emission control system produced by the manufacturer are certified as described below for use in off-road equipment. Production engines shall be in all material respects the same as those for which certification is granted.

MODEL YEAR	ENGINE FAMILY	DISPLACEMENT (liters)	FUEL TYPE	USEFUL LIFE (hours)
2004	4VEXL06.7DCR	3.9, 4.5, 5.9, 6.7	Diesel	8000
SPECIAL FEATURES & EMISSION CONTROL SYSTEMS			TYPICAL EQUIPMENT APPLICATION	
Direct Diesel Injection, Turbocharger, Charge Air Cooler, Engine Control Module			Loader, Tractor and Other Industrial Equipment	

The engine models and codes are attached.

The following are the exhaust certification standards (STD) and certification levels (CERT) for hydrocarbon (HC), oxides of nitrogen (NOx), or non-methane hydrocarbon plus oxides of nitrogen (NMHC+NOx), carbon monoxide (CO), and particulate matter (PM) in grams per kilowatt-hour (g/kw-hr), and the opacity-of-smoke certification standards and certification levels in percent (%) during acceleration (Accel), lugging (Lug), and the peak value from either mode (Peak) for this engine family (Title 13, California Code of Regulations, (13 CCR) Section 2423):

RATED POWER CLASS	EMISSION STANDARD CATEGORY		EXHAUST (g/kw-hr)					OPACITY (%)		
			HC	NOx	NMHC+NOx	CO	PM	ACCEL	LUG	PEAK
75 ≤ kW < 130	Tier 2	STD	N/A	N/A	6.6	5.0	0.30	20	15	50
130 ≤ kW < 225	Tier 2	STD	N/A	N/A	6.6	3.5	0.20	20	15	50
		CERT	--	--	5.0	1.2	0.11	12	3	27

**BE IT FURTHER RESOLVED:** That for the listed engine models, the manufacturer has submitted the information and materials to demonstrate certification compliance with 13 CCR Section 2424 (emission control labels), and 13 CCR Sections 2425 and 2426 (emission control system warranty).

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

**This Executive Order is only granted to the engine family and model-year listed above. Engines in this family that are produced for any other model-year are not covered by this Executive Order.**

Executed at El Monte, California on this 3<sup>RD</sup> day of December 2003.

Allen Lyons, Chief  
Mobile Source Operations Division

# Engine Model Summary Form

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U-R-015-0053

**Manufacturer:** IVECO NV  
**Engine category:** Nonroad CI  
**EPA Engine Family:** 4VEXL06.7DCR  
**Mfr Family Name:** F4AE0684  
**Process Code:** New Submission

1.Engine Code	2.Engine Model	3.BHP @RPM (SAE Gross)	4.Fuel Rate: mm/stroke @ peak HP (for diesel only)	5.Fuel Rate: (lbs/hr) @ peak HP (for diesels only)	6.Torque @ RPM (SEA Gross)	7.Fuel Rate: mm/stroke@peak torque	8.Fuel Rate: (lbs/hr) @ peak torque	9.Emission Control Device Per SAE J1930
N/A	F4AE0684A*D	274 @ 2500	128	N/A	693 @ 1250	139	N/A	DD1, EM, EC, CAC, TC
N/A	F4AE0684E*D	215 @ 2000	111	N/A	671 @ 1400	124	N/A	EM, EC, CAC.
N/A	F4AE0684C*D	227 @ 2300	109	N/A	597 @ 1250	111	N/A	EM, EC, CAC.
N/A	F4AE0684F*D	208 @ 2175	105	N/A	634 @ 1500	125	N/A	EM, EC, CAC.
N/A	F4AE0684P*D	236 @ 2700	99	N/A	597 @ 1250	110	N/A	EM, EC, CAC.
N/A	F4AE0684H*D	194 @ 2000	99	N/A	627 @ 1400	116	N/A	EM, EC, CAC.
N/A	F4AE0684N*D	180 @ 2300	85	N/A	516 @ 1400	103	N/A	EM, EC, CAC.
N/A	F4AE0684J*D	180 @ 2000	86	N/A	590 @ 1400	114	N/A	EM, EC, CAC.
N/A	F4DE0684A*D	160 @ 2200	76	N/A	482 @ 1600	90	N/A	EM, EC, CAC.
N/A	F4DE0684B*D	145 @ 2200	69	N/A	447 @ 1600	84	N/A	EM, EC, CAC.
N/A	F4AE0484B*D	143 @ 2300	97	N/A	361 @ 1200	105	N/A	EM, EC, CAC.
N/A	F4DE0484A*D	135 @ 2200	97	N/A	411 @ 1600	116	N/A	EM, EC, CAC.
N/A	F4AE0484C*D	148 @ 2700	92	N/A	361 @ 1200	105	N/A	EM, EC, CAC.
N/A	F4AE0684R*D	221 @ 2175	116	N/A	671 @ 1500	130	N/A	EM, EC, CAC.
N/A	F4AE0684L*D	184 @ 2100	92	N/A	590 @ 1400	105	N/A	EM, EC, CAC.
N/A	F4AE0684K*D	198 @ 2100	102	N/A	627 @ 1400	118	N/A	EM, EC, CAC.
N/A	F4HE0684J*D	194 @ 2000	109	N/A	627 @ 1400	126	N/A	EM, EC, CAC.
N/A	F4AE0684B*D	236 @ 2200	116	N/A	679 @ 1400	133	N/A	EM, EC, CAC.
N/A	F4AE0684G*D	201 @ 2200	99	N/A	634 @ 1400	125	N/A	EM, EC, CAC.
N/A	F4HE0684E*D	180 @ 2200	87	N/A	590 @ 1400	118	N/A	EM, EC, CAC.
N/A	F4HE0684F*D	160 @ 2200	76	N/A	482 @ 1600	90	N/A	EM, EC, CAC.