

EXHAUST EMISSION DATA SHEET

MQ POWER GENERATOR SET

Model: MQP250IV



The engine used in this generator set is certified to comply with United States EPA Tier 3 and CARB Mobile Off-Highway emission regulations.

ENGINE DATA

Manufacturer:	IVECO	Bore:	4.6 in	117 mm
Model:	F2CE9685	Stroke:	5.3 in	135 mm
Type:	4-Cycle Diesel, Direct Injection, I-6	Displacement:	531 in ³	8.7 liters
Aspiration:	Turbocharged, Air-to-Air Aftercooler	Compression Ratio:	16.5:1	

PERFORMANCE DATA

SAE Gross HP @ 1800 RPM (60 Hz)	389
Rated Load Fuel Consumption (gal/Hr)	18.7
Rated Load Exhaust Gas Flow (cfm)	2182
Rated Load Exhaust Gas Temperature (°F)	932

United States EPA - Mobile Off-Highway Tier 3 Limits - ≥302 BHP - ≤602 BHP

Criteria Pollutant	Emission Requirements	Certified Engine Emissions
NOx (Oxides of Nitrogen as NO ₂)	2.98 gr/bhp-hr	2.54 gr/bhp-hr
HC (Total Unburned Hydrocarbons)	(NOx + HC)* Combined	(NOx + HC)* Combined
CO (Carbon Monoxide)	2.61 gr/bhp-hr	0.45 gr/bhp-hr
PM (Particulate Matter)	0.15 gr/bhp-hr	0.10 gr/bhp-hr

EPA Engine Family:	8VEXL08.7TR3
EPA Certificate of Conformance:	VEX-NRCI-08-13
ARB Executive Order:	U-R-015-0138
Effective Date:	Model Year 2008

Note: Engine operation with excessive air intake or exhaust restriction beyond factory published maximum limits, or with improper service maintenance, may result in higher emission levels.



UNITED STATES ENVIRONMENTAL PROTECTION AGENCY
OFFICE OF TRANSPORTATION AND AIR QUALITY
WASHINGTON, DC 20460



CERTIFICATE OF CONFORMITY
2008 MODEL YEAR

Manufacturer: **IVECO N. V.**
Engine Family: **8VEXL08.7TR3**
Certificate Number: **VEX-NRCI-08-13**
Intended Service Class: **NR 7 (225-450)**
Fuel Type: **DIESEL**
FELs: NMHC+NOx: N/A NOx: N/A PM: N/A
Effective Date: **1/14/2008**
Date Issued: **1/14/2008**

Karl J. Simon, Director
Compliance and Innovative Strategies Division
Office of Transportation and Air Quality

Pursuant to Section 111 and Section 213 of the Clean Air Act (42 U.S.C. sections 7411 and 7547) and 40 CFR Part 60 and Part 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 stationary and nonroad engines, by engine family, more fully described in the documentation required by 40 CFR Part 60 and 89, and produced in the stated model year.

This certificate of conformity covers only those new stationary and 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 60 and 89 and which are produced during the model year stated on this certificate of the said manufacturer, as defined in 40 CFR Part 60 and 89.

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 a 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 stationary and 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)
2008	8VEXL08.7TR3	8.7	Diesel	8000
SPECIAL FEATURES & EMISSION CONTROL SYSTEMS			TYPICAL EQUIPMENT APPLICATION	
Direct Diesel Injection, Turbocharger, Charge Air Cooler, Engine Control Module			Generator Set 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):

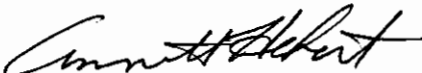
RATED POWER CLASS	EMISSION STANDARD CATEGORY		EXHAUST (g/kw-hr)					OPACITY (%)		
			HC	NOx	NMHC+NOx	CO	PM	ACCEL	LUG	PEAK
130 ≤ kW < 450	Tier 3	STD	N/A	N/A	4.0	3.5	0.20	20	15	50
		CERT	--	--	3.4	0.6	0.13	9	3	19

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 16 day of January 2008.


 Annette Hebert, Chief
 Mobile Source Operations Division

ATTACHMENT P.3 (of 1)
Engine Model Summary Template

U-R-015-038

Engine Family	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
8VEXL08.7TR3	F2CE9684F*E	F2CE9684	422 @ 2100	214	NA	1254@1500	263	NA	DDI, TC, CAC, ECM
8VEXL08.7TR3	F2CE9684G*E	F2CE9684	389 @ 2100	208	NA	1180@1500	252	NA	DDI, TC, CAC, ECM
8VEXL08.7TR3	F2CE9684A*E	F2CE9684	349 @ 2100	179	NA	1180@1500	247	NA	DDI, TC, CAC, ECM
8VEXL08.7TR3	F2CE9684L*E	F2CE9684	374 @ 2100	187	NA	1180@ 1500	247	NA	DDI, TC, CAC, ECM
8VEXL08.7TR3	F2CE9684H*E	F2CE9684	349 @ 2100	179	NA	1180@1500	247	NA	DDI, TC, CAC, ECM
8VEXL08.7TR3	F2CE9684B*E	F2CE9684	322 @ 2100	166	NA	1089@1500	223	NA	DDI, TC, CAC, ECM
8VEXL08.7TR3	F2CE9684C*E	F2CE9684	295 @ 2100	152	NA	999@1500	207	NA	DDI, TC, CAC, ECM
8VEXL08.7TR3	F2CE9684D*E	F2CE9684	282 @ 2100	147	NA	954@1500	196	NA	DDI, TC, CAC, ECM
8VEXL08.7TR3	F2CE9684E*E	F2CE9684	268 @ 2100	141	NA	909@1500	185	NA	DDI, TC, CAC, ECM
8VEXL08.7TR3	F2CE9687A*E	F2CE9687	349 @ 2100	179	NA	1106@1400	231	NA	DDI, TC, CAC, ECM
8VEXL08.7TR3	F2CE9687B*E	F2CE9687	308 @ 2100	160	NA	1033@1400	213	NA	DDI, TC, CAC, ECM
8VEXL08.7TR3	F2CE9687C*E	F2CE9687	268 @ 2100	141	NA	959@1400	198	NA	DDI, TC, CAC, ECM
8VEXL08.7TR3	F2CE9685A*E	F2CE9685	389 @ 1800	226	NA	1135@1800	226	NA	DDI, TC, CAC, ECM
8VEXL08.7TR3	F2CE9604M*E	F2CE9604	383 @ 2100	197	NA	1217@1800	237	NA	DDI, TC, CAC, ECM
8VEXL08.7TR3	F2CE9684N*E	F2CE9684	374 @ 2100	187	NA	1180@1500	247	NA	DDI, TC, CAC, ECM
8VEXL08.7TR3	F2CE9684P*E	F2CE9684	383 @ 2100	197	NA	1217@1800	237	NA	DDI, TC, CAC, ECM