

EXHAUST EMISSION DATA SHEET
MQ POWER INDUSTRIAL GENERATOR SET
Model: MQP550V



**The engine used in this generator set is certified to comply with
United States EPA Tier 2 and CARB Mobile Off-Highway emission regulations.**

<u>ENGINE DATA</u>			
Manufacturer:	VOLVO	Bore:	5.67 in 144 mm
Model:	TAD1641GE	Stroke:	6.50 in 165 mm
Type:	4-Cycle Diesel, Direct Injection, I-6	Displacement:	984 in ³ 16.12 liters
Aspiration:	Turbocharger, Charge Air Cooled, ECM	Compression Ratio:	16.5:1
<u>PERFORMANCE DATA</u>			
SAE Gross HP @ 1800 RPM (60 Hz)			809
Rated Load Fuel Consumption (gal/Hr)			33.1
Rated Load Exhaust Gas Flow (cfm)			4153
Rated Load Exhaust Gas Temperature (F)			954

United States EPA - Mobile Off-Highway Tier 2 Limits - >751 BHP		
Criteria Pollutant	Emission Requirements	Certified Engine Emissions
NOx (Oxides of Nitrogen as NO ₂)	4.77 gr/bhp-hr	4.03 gr/bhp-hr
HC (Total Unburned Hydrocarbons)	(NOx + HC)* Combined	(NOx + HC)* Combined
CO (Carbon Monoxide)	2.61 gr/bhp-hr	0.52 gr/bhp-hr
PM (Particulate Matter)	0.15 gr/bhp-hr	0.07 gr/bhp-hr
EPA Engine Family:	8VPXL16.1ACB	
EPA Certificate of Conformance:	VPX-NRCI-08-04	
ARB Executive Order:	U-R-014-0102	
Effective Date:	Year 2008	
<i>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.</i>		



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 engines 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	8VPXL16.1ACB	16.12	Diesel	8000
SPECIAL FEATURES & EMISSION CONTROL SYSTEMS			TYPICAL EQUIPMENT APPLICATION	
Direct Diesel Injection, Turbocharger, Charge Air Cooler, Engine Control Module			Generator	

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
kW > 560	Tier 2	STD	N/A	N/A	6.4	3.5	0.20	N/A	N/A	N/A
		FEL	-	-	6.0	-	0.17	-	-	-
		CERT	-	-	5.4	0.7	0.10	-	-	-

BE IT FURTHER RESOLVED: That the family emission limit(s) (FEL) is an emission level declared by the manufacturer for use in any averaging, banking and trading program and in lieu of an emission standard for certification. It serves as the applicable emission standard for determining compliance of any engine within this engine family under 13 CCR Sections 2423 and 2427.

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 day of December 2007.

Annette Hebert, Chief
Mobile Source Operations Division

Engine Model Summary Form

Manufacturer: AB Volvo Penta
Engine category: Nonroad CI
EPA Engine Family: 8VPXL16.1ACB
Mfr Family Name: TAD 164XGE
Process Code: New Submission

Attachment 1 of 1

U-R-014-0102

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
1	TAD1642GE	809@1800	404		2388	NA	NA	ECM, CAC, TC
2	TAD1641GE	757@1800	374		2230	NA	NA	↓ ↓ ↓

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