EXHAUST EMISSION DATA SHEET

MQ POWER GENERATOR SET

Model: DCA600SSV



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

ENGINE DATA								
Manufacturer: VC	DLVO			Bore:	5.67 in.	(144 mm)		
Model: TA	D1642GE			Stroke:	6.50 in.	(165 mm)		
Туре: 4-	Cycle Diesel,	In-Li	ne, 6-Cylinder	Displacement	:: 984 cid	(16.10 liters)		
Aspiration: Tu	irbocharged, C	Charge	er Air Cooler, ECM	Compression Ratio: 16.5:1				
PERFORMANCE DATA								
SAE Gross HP @ 1800 RPM (60 Hz)		810					
Rated Load Fuel Consumption	(gal/Hr)		33.1					
Rated Load Exhaust Gas Flow	(cfm)		4153					
Rated Load Exhaust Gas Temperature (°F) 954								
Rated Load Exhaust Gas Tem	perature (°F)		954					
	· · · ·	· Mo	bile Off-Highway	/ Tier 2 Limit	ts - >751	BHP		
	ates EPA -				ts - >751 d Engine Ei			
United St	ates EPA -		bile Off-Highway			missions		
United St Criteria Pollutant	ates EPA - E D2) 4.	miss .77	bile Off-Highway	Certifie 4.03	d Engine E	missions		
United St Criteria Pollutant NOx (Oxides of Nitrogen as NO	ates EPA - E D2) 4. pons) (N	miss .77	bile Off-Highway ion Requirements gr/bhp-hr	Certifie 4.03	d Engine E gr/bhp-hr	m issions ed		
United St Criteria Pollutant NOx (Oxides of Nitrogen as NO HC (Total Unburned Hydrocarb	ates EPA - D2) 4. pons) (N 2. 2.	miss .77 Ox +	bile Off-Highway ion Requirements gr/bhp-hr HC)* Combined	4.03 (NOx + H	d Engine E i gr/bhp-hr IC)* Combin	missions ed		
United St Criteria Pollutant NOx (Oxides of Nitrogen as NO HC (Total Unburned Hydrocart CO (Carbon Monoxide)	ates EPA - E D2) 4. pons) (N 2. 0.	Emiss .77 Ox + .61 .15	bile Off-Highway ion Requirements gr/bhp-hr HC)* Combined gr/bhp-hr	Certifie 4.03 (NOx + H 0.52	d Engine E gr/bhp-hr IC)* Combin gr/bhp-hr	missions ed		
United St Criteria Pollutant NOx (Oxides of Nitrogen as NO HC (Total Unburned Hydrocarb CO (Carbon Monoxide) PM (Particulate Matter)	ates EPA - D2) 4. D0ns) (N 2. 0. AVP2	Emiss .77 .0x + .61 .15 XL16.	bile Off-Highway ion Requirements gr/bhp-hr HC)* Combined gr/bhp-hr gr/bhp-hr	Certifie 4.03 (NOx + H 0.52	d Engine E gr/bhp-hr IC)* Combin gr/bhp-hr	missions ed		
United St Criteria Pollutant NOx (Oxides of Nitrogen as NO HC (Total Unburned Hydrocart CO (Carbon Monoxide) PM (Particulate Matter) EPA Engine Family:	ates EPA - D2) 4. D2) 4. D0ns) (N 2. 0. AVP2 e: VPX-	Emiss .77 .0x + .61 .15 XL16.	bile Off-Highway ion Requirements gr/bhp-hr HC)* Combined gr/bhp-hr gr/bhp-hr 1ACB I-10-04	Certifie 4.03 (NOx + H 0.52	d Engine E gr/bhp-hr IC)* Combin gr/bhp-hr	missions ed		

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.

CONTRACTOR OF THE STATE	UNITED STATES ENVIRONMENTAL PROTECTION AGENCY OFFICE OF TRANSPORTATION AND AIR QUALITY WASHINGTON, DC 20460 CERTIFICATE OF CONFORMITY 2010 MODEL YEAR	
Manufacturer: Engine Family: Certificate Number: Intended Service Class: Fuel Type: FELs: Effective Date: Date Issued:	AB VOLVO PENTA AVPXL16.1ACB VPX-NRCI-10-04 NR 9 (>560) DIESEL NMHC +NOx: N/A NOx: N/A PM: N/A 9/8/2009 9/8/2009	
	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 of 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.

·		ALL DEAD	
		EXECUTIVE ORDER U-R-014-0118	
and the second sec		New Uti-Ruau	
AIR RESOURCES BOARD	AB VOLVO PENTA	Compression-Ignition Engines	
AIR RESOURCES BOAKD			

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.

		DISPLACEMENT	FUELJYPE	USEFUL LIFE (hours)		
MODEL YEAR	ENGINE FAMILY	(liters)	<u> </u>	8000		
2010	AL TON AD AACD	16.12	Diesel			
	FEATURES & EMISSION	and the second se	TYPICAL EQUIPMENT APPLICATION			
Direct Diesel Injection, Turbocharger, Charge Air Cooler, Electronic Control Module			Generator Set			

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):

				EXHAUST (g/kW-hr)				OPACITY (%)		
RATED POW			нс	NOX	NMHC+NOx	co	PM	ACCEL	LUG	PEAK
CLASS	CATEGORY			N1/A	6.4	3.5	0.20	N/A	N/A	N/A
kW > 560) Tier 2	STD	N/A	N/A	5.4	0.7	0.10	*		
		CERT	-	1	2.4	<u> </u>		<u></u>		

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.

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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

day of December 2009.

Annette Hebert, Chief Mobile Source Operations Division