

# Exhaust Emission Data Sheet

## 75GGHH

### 50 Hz Generator Set

#### ENGINE

Model: Ford WSG-1068	Bore: 3.55 in. ( 90 mm )
Type: 4 Cycle, V 10 Cylinder Spark-Ignited	Stroke: 4.17 in. ( 106 mm )
Aspiration: Turbocharged	Displacement: 412 cu. in. ( 6.8 liters )
Compression Ratio: 9:1	
Emission Control Device: None	

PERFORMANCE DATA	NATURAL GAS	PROPANE
Genset Rating @ 1500 RPM ( 50 Hz)	75	75
HP @ 1500 RPM ( 50 Hz)	118	118
Fuel Consumption (scfh)	951	357
Air to Fuel Ratio	17.3	15.2
Exhaust Gas Flow (CFM)	527	462
Exhaust Gas Temperature ( °F)	1076	1070

#### EXHAUST EMISSION DATA

(All Values are Grams per HP-Hour)

COMPONENT	NATURAL GAS	PROPANE
HC ( Total Unburned Hydrocarbons )	0.8	0.8
NOx ( Oxides of Nitrogen as NO <sub>2</sub> )	12.0	8.7
CO ( Carbon Monoxide )	3.2	21.6
PM10 (Particulate Matter)	negligible	negligible

#### TEST CONDITIONS

Data was recorded during steady-state rated engine speed ( ± 25 RPM) with rated load ( ± 2% ). Pressures, temperatures, and emission rates were stabilized.

**Fuel Specification:**

Natural Gas:	Natural Gas as received from Supplier.
Propane	Meets the requirements for Commercial Grade Propane under the ASTM D1835 Standard Specification for Liquefied Petroleum Gases.

Intake Air Temperature: 77 ± 9 ° F

Barometric Pressure: 29.6 ± 1 in. Hg

Humidity: NOx measurement corrected to 75 grains H<sub>2</sub>O/lb dry air

The NOx, HC, and CO emission data tabulated here were taken from a single engine under the test conditions shown above. These data are subject to instrumentation and engine-to-engine variability. Field emissions test data are not guaranteed to these levels. Actual field test results may vary due to test site conditions, installation, fuel specification, test procedures and instrumentation. Engine operation with excessive air intake or exhaust restriction beyond published maximum limits, or with improper maintenance, may result in elevated emission levels.