



*Figures based on pipeline quality gas.

Fuel System/Emission Controls

Catalyst Type	TWC, ceramic
Catalyst Inlet Size	4 in
Fuel Supply System	Venturi mixer
Engine Control System	Woodward, SECM70
Fuel System	Air-fuel Mixer with Throttle Valve Control
Emissions Certificate	RMSAB22.0V22-001
Fuels	NG, LP (700-1800BTU)

Base Engine				Oiling System		Engine Timing			
Configuration	12 Cylinder - V Type - 4 Cycle	Bore	128 mm	Lubricating Oil Capacity	40 Liters	Valve Clearance, cold, intake (mm)	0.3 ± 0.05		
Aspiration	Turbo Charged and Intercooled	Stroke	142 mm	Oil Cooler Type	Water-cooled	Valve Clearance, cold, exhaust (mm)	0.4+/-0.05		
Firing Order	1-12-5-8-3-10-6-7-2-11-4-9	Timing gear system	Gear Driven Type	Oil Specification	15@-40 Low Ash Natural gas engine oil, 0.25-0.5% ash by wt%, API CD/CF or higher	Intake valve Opening	24° BTDC		
Displacement	21,927 cc	Cylinder liner type	Wet Type	Lubrication Method	Pressurized Circulation	Intake valve closing	36° ABDC		
Fuel Type	Propane (LP), Natural Gas (NG), Field Gas	Base Engine Size (LxWxH) (mm)	1955 (L) x 1290 (W) x 1710 (H)	Oil Pump Type	External Spur Gear Type	Exhaust valve opening	63° BBDC		
Combustion	Spark-Ignited	Cooling System		Oil Pressure at Low Idle	1 Bar	Exhaust valve closing	27° ATDC		
Direction of Rotation (Viewed from Flywheel Side)	Counterclockwise	Cooling System	Water-cooled/Radiator	Oil Pressure at High Idle	3 Bar	Ignition/Electrical			
Compression Ratio	10:2:1	Engine Coolant Capacity	45 Liters	Oil Filter Type	Full Flow, Cartridge Type	Spark Plug Type	Iridium/Platinum Electrode Plug	Ignition Type	One Coil per Cylinder
Exhaust Manifold Type	Water-cooled	System Capacity	189 Liters			Standard Spark Plug Gap	0.3~0.4 mm	Battery Voltage	24 Volts
Flywheel Housing	SAE No. 1	Water Pump Type	Centrifugal, Pulley Driven			Ignition Timing	Controlled by ECM	Ignition Coil	Inductive Coil Pack
Flywheel	No. 14	Thermostat Type	Unit (wax-pellet)						
Dry Weight (Fan to Flywheel)	1510 Kg	Thermostat Operating Temp Range	Cracking 71° C (160° F) Full Open 85° C (185° F)						