

16.5 MW Wartsila Natural Gas Power Plant

ENGINE

Manufacture: Wartsila

Model: 18V34SG

Number of Units: 3

Fuel: Natural Gas

Engine configuration: 18 cylinder, 31.8 lts/cylinder

Rated Power: 5500 KW

Efficiency (current, avg.): 41.98% (kWh/kWhe)

Oil Consumption (current, avg.): 0.3901 kg/kWh

Exhaust Gas Flow² : 10.10 kg/s \pm 5%

Exhaust Gas Temperature² : 418°C \pm 10°C

Recoverable heat @ 120°C² : 3.311KW

Rotation Speed: 750 rpm

Year Manufacture: 2001

Year of installation: 2003

Hours of Operation: 52,000

Maintenance Overhaul : 48,000 hrs.

Hours of Operation Since Maintenance Overhaul: 7,000 hrs.

Cooling Water – Temp. Circuit²

Flow: 216t/hr

Inlet Temperature: 85°C

Outlet Temperature: 91°C

Heat: 1.578 KW \pm 10%

Cooling Water – Temp. Circuit²

Flow: 216t/hr

Inlet Temperature: 40°C

Outlet Temperature: 45°C

Heat: 1.228 KW ± 10%

GENERATOR

Number of Units: 3

Manufacture: ABB

Output: 6840 KVA

Voltage: 6300V

Speed: 750rpm

Frequency: 50 HZ

** Note

Included: Heat Recovery Boiler with Plant