



RGS

Rotating Global Service

Gas Turbine PGT5/D

Technical data

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Quality system certificate UNI EN ISO 9001: 2008 cert n. 336/15/Q



ISO 9001:2008 - cert n. 336/15/Q

Gas Turbine data

Construction Features

Gas Turbine Model Series	PGT5/D
Gas Turbine type	Driver
Cycle	Simple
Number of Shafts	Double shaft
Direction of Rotation	Counterclockwise
Construction Year	1990

Gas Turbine Nameplate Rating

Design output	ISO Conditions
Design Heat Rate	7300 HP
Exhaust Temperature	13470 KJ/KWh
Exhaust Flow	533 C°
Inlet Pressure	25,8 Kg/Sec
Exhaust Pressure	100 mmH2O
	100 mmH2O

Air Compressor

Number of stages	15
Type	Axial flow Heavy Duty
Casing Split	Horizontal
Inlet Guide Vane	Fix High Flow

Turbine

Number of stage	2
Turbine Casing Split	Horizontal
Exhaust Casing	No Split
Rotor Speed	11140 Rpm

Combustion System

Single combustion Chambers

Fuel Nozzle Type

Spark Plug

Spark Plug Type

Flame Detector Arrangement

Single Gas

Single Spark Plug

Retractable Electrodes

Double Detector

Fuel gas Supply

Pressure

Flow

16BARG

3600Kg/h

Bearing Assemblies

Quantity

Lubrication oil Pressure

Bearing #1 Oil Consumption

Bearing #2 Oil Consumption

N° 1 Bearing Assembly

Journal

Active Thrust

Inactive Thrust

N° 2 Bearing assembly

Journal

N°3 Bearing Assembly

N°4 Bearing Assembly

4 Journal Bearing

2 Thrust Bearing

1,3 BAR

275 l/min

39 l/min

Lemon shape

Tilting-Pad non Equalizing

Fix-Pad non Equalizing

Lemon shape

Tilting Pad

Tilting Pad

Starting System

Electric Motor with VFD System

110 HP

Lube oil System

Reservoir

Capacity

3227 Liter

Lube oil pump (Main)

Shaft driven on the main gear box

795 l/min - 3,2BAR

Lube oil pump (auxiliary – Cool-down)

Electric Pump (DC Motor)

795l/min – 3,2BAR

Lube oil Pump (Emergency)

Electrical Pump (AC motor)

490l/min – 1,5 BAR

Approximate Weights

Gas Turbine

10,800 Kg

Operational Data

Total Fire hours

97,979 hrs

Total Stars

565

Trips

347

Hours since last Overhaul

20,000 hrs

Type of last maintenance

Major Overhaul