

Built / Installed

Fuel
Operating hours

Heavy Fuel Oil / Diesel
Approx.: 18000 h,
16500 h after the last overhauling
Good operation condition

Condition
Availability
Operation data

Availability per year: **8000 h**

Engine

Manufacturer
Type
Output

MAN B&W
2 x 9 L58/64
2 x 12170 KW at 100 % load
(ISO 25°C air temp., 1 bar air pressure, 25°
cooling water temp.)
181,5 g/kWh
0,37 g/kWh +20%
428 rpm
361 °C +/-15% // kg/h

Specific fuel oil consumption (sfoc)*:
Lubricating oil consumption**
Speed
Exhaust gas temp // volume

* Tolerance of sfoc \pm 3% related to mechanical output
without attached pumps, according to ISO 3046/1:1995.
Using fuel oil with LHV = 42,700 kJ/kg.

** Tolerance of lubricating oil consumption \pm 20 % related to
mechanical output at 100 % load.

Alternator

Manufacturer
Output
Frequency
Speed
Voltage
Cos ph

Siemens Type:1DK5536-3DE 07-Z
15200 kVA
50 Hz
428,6 rpm
11000 kV
0,8

HFO Treatment

Manufacturer
Type
Nominal Output
Operation Temp

Alfa laval
SU 500
3 M³/h
Max 155 °C

Viscosimat

Manufacturer
Type

KUPKE+WOLF GMBH
V92

Lubrication Treatment

Manufacturer
Type

BOLL&KIRCH
6.48

Control / Monitoring System

Manufacturer
Type

KUHSE
Control System

Heat recovering Boiler

Manufacturer
Type
Output Steam Pressure / Temperature

AALBORG INDUSTRIES OY
AV-6N
7,5 bar / 173 °C 5,U776 t/h per engine

Heat exchanger

Manufacturer
Type

GEA Ecoflex gmbH
Plate Type Heat Exchanger

Output Hot Water Pressure / Temperature	bar / 90 °C 130 m3/H
Cooler	
Manufacturer	GEA
Type	KTO-GVO 50 S
No of cooling fans	2 MOTEURS 1500 TR/MN 18,5
Nominal Load / max ambient air Temperature	26 °C
Transformer	3 PHAZE
Manufacturer	BEST TRANSFORMER BALIKESIR/ TURKEY
Type	2X YT16000/36-33000/11000 KVA-280A/839,8A
IN / OUT, Frequency, Load	31,5 kV / 11 kV 50 Hz, xxx kVA
Station Transformer	
Manufacturer	BEST TRANSFORMER BALIKESIR/ TURKEY
Type	VT/2500/36 KVA
IN / OUT, Frequency, Load	31500 / 400V / 50 Hz, 3608/43,74 A
Additional Parts	
<u>Compressors</u>	
Manufacturer	Neuenhauser Kompressoren GmbH
Type	Air cooled compressormodule 3-stages 2x40.2.3.00.03.10.23 30 bar / 100 m3/h / xxx m3/h
Air Filter	
Manufacturer	LOCKER AIR-MAZE
Type	AUTOMAZE600 EM Automatic Air Bath Filter
<u>Special Tools related to the engines</u>	Injection Pressure testing device, Hydraulic Pressure Pump, and special-standart tools for assembly and disassembly, and a good spare part stock

Cogeneration Plant operating with 2x9L58/64 MAN B&W Diesel AG Engines

MAN B&W Diesel Engines operating with HFO-6

Op'n hour : app. 18000h

Electrical Output : app. 12170 kWh

All auxiliaries are also in usable condition,

Auxiliaries :

SIEMENS Generators,

Parallel/Synchronisation Equipments,

Circuit Breakers,

Neutral Resistance rooms,

Transformers from 11,5 KV/31.5 Kv/0,400 kV

Cooling Tower made by GEA

Exhaust Gas Waste Heat Steam Boilers made by AALBORG INDUSTRIES OY

Air Intake Filters

Starting Air Compressors

2xHFO and 2xLube Oil Separators made by ALFA LAVAL

2xHT Cooling Water Pumps, 2xLT Cooling Water Pumps

Main LO Pumps, etc.

2x HFO Viscosity Modules with booster pumps, filters, steam reg. valves,

2xHFO and DO Main Ring Pumps with Filtering Modules,

1x Fresh Oil Tank, 1xUsed Oil Tank, 1x Engine Cooling Water Coll. tank, 1xLeak HFO and LO tanks,

1x LO Automatic Filtering Module, etc.