

## **Turbo Generator Set**

- SOCIETE RATEAU, Type TH 457-480 multi stage condensing impulse steam turbine.
- MAAG, type GN 70 speed reduction gear.
- ALSTHOM, 7,7MW A.C. generator.

### **Backpressure Steam Turbine**

Type	: TH 457-480
Turbine-to- gear coupling type	: MAAG ZNS 6
Gear-to-Generator coupling type	: MAAG ZNS 9

### **Speed reduction gear**

Type	: MAAG GN 70
Input speed	: 7540 rpm
Output speed	: 1500 rpm

### **Generator**

Alstom Belfort 1969

Type	: RNV 144-125
No	: 409351
Voltage	: 6300V
Current	: 882 A
Speed of Rotation	: 1500 r.p.m
KVA	: 9625
Cos(fi)	: 0,8
Frequency	: 50 Hz
Insu Cl.	: B
Protection	: Enclosed
Excitation	: V 47 A 639

### **Performance data**

Steam inlet pressure	: 57 ata
Steam inlet temperature	: 480 Deg. C
Exhaust pressure	: 0,1 kg/cm <sup>2</sup> (abs)
Throttle steam flow	: 36000 kg/h
Total kW rating	: 7700 kW
Speed of rotation	: 7500 rpm
Max. Continuous speed of rotation	: 7875 rpm
Trip speed	: 8250 rpm

### **Lube Oil Filter**

Make & type	: Rellumix 32C 400
Oil flow rate	: 500 l/min
Pressure drops	: 0,5 bars
Filtering efficiency	: 20 microns
Oil grade	: 50 C No.3 mineral
Service pressure	: 5 bars

### **Governing & safety oil filter**

Make & type	: Rellumix D7C 400
Oil flow rate	: 100 l/min
Pressure drops	: 0,35 bars
Filtering efficiency	: 20 microns
Oil grade	: 50C No.3 mineral
Service pressure	: 12,5 bar