

ROLLS-ROYCE ENGINE (Bergen Rolls-Royce K18) including alternator

Place: Condition: packed and protected on internal square

In operation since December 2008

Hours worked: 62,595

Deactivation date: April 2023

Last major maintenance 50K: 50363 h carried out from 08/06/2020 to 25/06/2020

Turbine overhaul: 53978 h



Characteristics	Values
Builder and model:	Rolls Royce Bergen, KVG5-18G4.2
Technology used:	Gas internal Combustion engine with Otto cycle optimized (Miller cycle), 4T, supercharged, intercooled
Input thermal power:	7.860 kW
Maximum continuous mechanical power:	3.720 kW
Rated power:	3.610 kWel
Apparent power of the alternator:	4.010 kVA
Rotation speed:	1000 RPM
Nominal yield of electricity production:	45.9%
Cal recovery technology	Plate exchangers for circuit recovery of the engine jacket water and the hourly stage: intercooler temperature (HT), tube boiler for heat recovery from exhaust fumes
Nominal recovered thermal power:	3.450 kW
First principle nominal yield:	89.8%
NOx abatement system:	Injection of water and urea mixture (SCR)
Abatement plant of the CCO	Oxidation catalytic converter
Technical data of step-up transformer:	5,000 kVA, operating voltages 6.3/15.75 kVA, resin insulation