

21. JUN. 1962

Rpt. 4c

Date of writing report 15/6/62 Received London Port of Vienna No. C. 01786
Survey held at Miskolc, Budapest No. of visits 5 First date 26/7/61 Last date 12/6/62

FIRST ENTRY REPORT ON AUXILIARY INTERNAL COMBUSTION ENGINES

Name of Ship ABO EGELA Owners Ports and Lighthouses Administration
(Or Contract No. if name unknown) (Or Consignees) Alexandria, Egypt
Ship Built at Budapest by Gheorghiu Dej Shipyard when 1962 Yard No. 1917
Auxiliary Engines or Gas Turbines made at Miskolc, Hungary by Nehézszerzőgépgyár when 1962 Eng. Nos. 336, 337
Total No. of sets and description (including type name) 2 sets Diesel engines type VI JmD 160

INTERNAL COMBUSTION RECIPROCATING ENGINES. No. of cylinders per engine 6 Dia. of cylinders 160 mm Stroke 185 mm
2 or 4 stroke cycle 4 Maximum approved BHP 132 at 1000 RPM Corresponding MIP 7.17 kg/cm2 Maximum pressure 45 kg/cm2
Fuel gas oil Are cylinders arranged in Vee or other special formation? no If so, No. of
crankshafts per engine -- Is engine of opposed piston type? no No. and type of mechanically driven scavenge pumps or blowers
per engine -- No. of exhaust gas driven blowers or superchargers per engine -- Is welded construction
used for: Bedplate? no Entablature? no Total internal volume of crankcase (if 20 cu. ft. or over) 0.47 m3 No. and total area of
crankcase explosion relief devices 2, 14.7 sq. inch Are flame guards or traps fitted? no Cooling medium for: Cylinders water (fresh)
Pistons -- No. of attached pumps: F.W. cooling 1 S.W. cooling 1 Lubricating oil 1 How is engine started?
compressed air

SHAFTING. Is a damper or detuner fitted? no No. of main bearings 4 Are bearings of ball or roller type? no Distance between
inner edges of bearings in way of cranks 396 mm Crankshaft: Built, semi-built, solid Material of crankshaft steel Approved 218.5
minimum tensile strength 65 kg/mm2 Dia. of pins 100 mm Journals 110 mm Breadth of webs at mid throw 185 mm Axial
thickness 75 mm If shrunk, radial thickness around eyeholes -- Dia. of flywheel 700 mm Weight 300 Kg Are balance
weights fitted? yes Total weight 535 g Rad. of gyration PD2=123 Kgm2 Dia. of flywheel shaft 95/85 mm
Has each engine been tested in shop? yes How long at full power? 6 hours Was it tested with driven machinery attached? no Was the
governing tested and found satisfactory? yes Date of approval of torsional vibration characteristics (for engines of 150 BHP and over) --
Date of approval of shafting 5.12.61 Identification marks on shafting LLOYDS VNA 14951 RC 9.3.62
Particulars of driven machinery DC Generator type EBC 22/370, 75 KW, 230 V, 1000 rpm
Serial Nos. 347197, 347198

Port and No. of Certificate for Starting Air Receivers Vienna, Certificate No. C.01796

AUXILIARY GAS TURBINES. BHP per set At RPM of output shaft. Open or closed cycle?
Arrangement of turbines. HP drives at RPM HP gas inlet temp. pressure
(A small diagram should be attached showing gas cycle) IP at IP LP LP
No. of air compressors per set Centrifugal or axial flow type? Material of turbine blades
Material of compressor blades No. of air coolers per set No. of heat exchangers per set How are
turbines started? Are the turbines operated in conjunction with free piston gas generators?
Total No. of free piston gas generators Dia. of working pistons Dia. of compressor pistons No. of double strokes
per minute at full power Gas delivery pressure Gas delivery temperature
Have the turbines and attached equipment been tested in shop? How long at full power? Were they tested with driven machinery
attached? Particulars of gearing
Date of approval of plans Identification marks Particulars of driven machinery

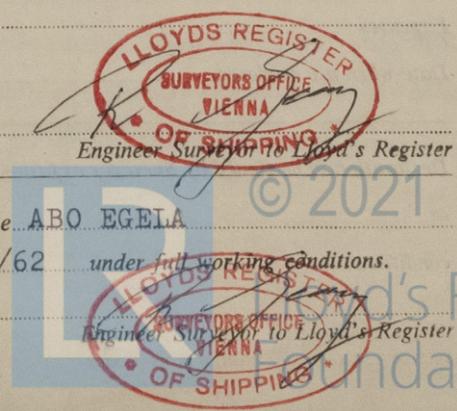
ELECTRIC GENERATORS. Port and No. of Certificate for generators of 100 Kw. and over --
For generators under 100 Kw., has Makers' Certificate been obtained? yes Are Certificates attached? yes

The foregoing description is correct and the particulars are as approved for torsional vibration characteristics (strike out words not applicable)
Signature: MEO Manufacturer

GENERAL REMARKS. State if the machinery has been constructed under special survey in accordance with the Rules, approved plans and Secretary's letters.
State quality of materials and workmanship. Where existing machinery is submitted for classification the circumstances should be explained as fully as possible.
The auxiliary engines have been constructed under special survey in accordance with the requirements of the Society's Rules, the approved plans and the Secretary's letters. The
materials and the workmanship were found satisfactory. The engines were tested on the Makers' test bed under full load with satisfactory results.
in my opinion the engines can be recommended for the notation +IMC 6-62

Survey Fee
Expenses
Date when a/c rendered

Declaration to be signed by Surveyor at fitting-out Port:— The above described machinery has been fitted on board the ABO EGELA
at Gheorghiu Dej in a proper manner and found satisfactory when tested on the (date) 12/6/62 under full working conditions.
Shipyard, Budapest



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