21. JUN. 1962

Rpt. 4c

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FIRST ENTRY REPORT ON AUXILIARY INTERNAL COMBUSTION ENGINES

Name of Ship ABO EGELA *(Or Contract No. if name unknown).* *Owners (Or Consignees)* Ports and Lighthouses Administration Alexandria, Egypt

Ship Built at Budapest, Hungary *by* Gheorghiu Dej Shipyard *when* 1962 *Yard No.* 1917

Auxiliary Engines or Gas Turbines made at Budapest *by* Kismotor és Gépgyár *when* 1962 *Eng. Nos.* 54762

Total No. of sets and description (including type name) 1 Diesel engine type II JmC-130

INTERNAL COMBUSTION RECIPROCATING ENGINES. *No. of cylinders per engine* 2 *Dia. of cylinders* 130 mm *Stroke* 160 mm

2 or 4 stroke cycle 4 *Maximum approved BHP* 25.5 *at* 1000 *RPM* *Corresponding MIP* 6.8 Kg/cm^2 *Maximum pressure* 45 Kg/cm^2

Fuel Gas oil *Are cylinders arranged in Vee or other special formation?* no *If so, No. of*

crankshafts per engine no *Is engine of opposed piston type?* no *No. and type of mechanically driven scavenge pumps or blowers*

per engine no *No. of exhaust gas driven blowers or superchargers per engine* no *Is welded construction*

used for: Bedplate? no *Entablature?* no *Total internal volume of crankcase (if 20 cu. ft. or over)* 0.2 m^3 *No. and total area of*

crankcase explosion relief devices -- *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?* By air and by hand

SHAFTING. *Is a damper or detuner fitted?* no *No. of main bearings* 2 *Are bearings of ball or roller type?* no *Distance between*

inner edges of bearings in way of cranks 326 mm *Crankshaft: Built, semi-built, solid.* *Material of crankshaft* Cr Mo 135 *Approved*

minimum tensile strength 80 Kg/mm^2 *Dia. of pins* 72 mm *Journals* 72 mm *Breadth of webs at mid throw* 100 mm *Axial*

thickness 41 and 65 mm *Shrunk, radial thickness around eyeholes* -- *Dia. of flywheel* 850 mm *Weight* 210 Kgs. *Are balance*

weights fitted? yes *Total weight* 210 g *Rad. of gyration* PD^2=40 Kgm^2 *Dia. of flywheel shaft* 65 mm

Has each engine been tested in shop? yes *How long at full power?* 5 hours *Was it tested with driven machinery attached?* yes *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 5.12.60 *Identification marks on shafting* LLOYDS VNA 348 RC 12.4.62

Particulars of driven machinery Generator type EH 271, Output 15 KW, Serial No. 41456

Port and No. of Certificate for Starting Air Receivers Vienna, Certificate No. C.01800

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 " *at* " *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)

Kismotor Gépgyár Műszaki ellenőrzési osztály

Manufacturer

Is this machinery duplicate of a previous case? no *If so, which?* --

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 engine has 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 engine was tested on the Makers' test bed under full load with satisfactory results.
in my opinion the engines can be recommended for the notation +LMC 6-62

Survey Fee

Expenses

Date when a/c rendered

LLOYDS REGISTER OF SHIPPING SURVEYORS OFFICE VIENNA

Engineer Surveyor to Lloyd's Register

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

LLOYDS REGISTER OF SHIPPING SURVEYORS OFFICE VIENNA

Engineer Surveyor to Lloyd's Register

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