3 MAO 5480 Bijeme

-6 JAN 1962

Rpt. 4c

Date of writing report 29.4.61 Received London ..... Port Rijeka No. 1207

Survey held at Karlovac No. of visits 16 First date 18.5.60 Last date 17.4.61

4.5.60 5.4.61

16. JUN. 1961

FIRST ENTRY REPORT ON AUXILIARY INTERNAL COMBUSTION ENGINES

16. JUN. 1961

Name of Ship 127/59 *Owners* .....
(Or Contract No. if name unknown). *(Or Consignees)*

Ship Built at Rijeka *by* 3.Maj *when* ..... *Yard No.* 480

Auxiliary Engines ~~or Gas Turbines~~ made at Karlovac *by* Jugoturbina *when* 1961 *Eng. Nos.* M-110-111

Total No. of sets and description (including type name) 2Sets Jugoturbina - Sulzer Type 5BAH29

INTERNAL COMBUSTION RECIPROCATING ENGINES. *No. of cylinders per engine* 5 *Dia. of cylinders* 290 mm *Stroke* 360 mm *2 or 4 stroke cycle* four *Maximum approved BHP* 500 *at* 500 *RPM* *Corresponding MIP* 11 kg/sq.cm *Maximum pressure* 60 kg/sq.cm *Fuel* Marine Diesel Oil *Are cylinders arranged in Vee or other special formation?* In line *If so, No. of crankshafts per engine* one *Is engine of opposed piston type?* no *No. and type of mechanically driven scavenge pumps or blowers per engine* none *No. of exhaust gas driven blowers or superchargers per engine* one *Is welded construction used for: Bedplate?* no *Entablature?* no *Total Internal volume of crankcase (if 20 cu. ft. or over)* 2.6 cu. m. *No. and total area of crankcase explosion relief devices* 5x0,0113 sq.m. *Are flame guards or traps fitted?* no *Cooling medium for: Cylinders* fresh water *Pistons* no cooling *No. of attached pumps: F.W. cooling* none *S.W. cooling* none *Lubricating oil* one *How is engine started?* with compressed air of max. 30 kg/sq.cm.

SHAFTING. *Is a damper or detuner fitted?* no *No. of main bearings* 6 *Are bearings of ball or roller type?* no *Distance between inner edges of bearings in way of cranks* 338 *Crankshaft: Built, semi-built, solid.* *Material of crankshaft* MF.Steel *Approved minimum tensile strength* 50 kg/sq.mm *Dia. of pins* 185 mm *Journals* 200 mm *Breadth of webs at mid throw* 295 mm *Axial thickness* 92 mm *If shrunk, radial thickness around eyeholes* - *Dia. of flywheel* 1500 mm *Weight* 1350 kg. *Are balance weights fitted?* no *Total weight* - *Rad. of gyration* - *Dia. of flywheel shaft* 200 mm

17.7.61

Has each engine been tested in shop? yes *How long at full power?* 6 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)* 6.12.60 19/12/60

Date of approval of shafting ..... *Identification marks on shafting* Lloyd's Rka.No.6528 22.6.60.JR. Lloyd's KLN & R 563 2.12.57.RM.

Particulars of driven machinery Rade Koncar AC.Self Exiting Generator SC 1126-12 of 400KVA.;Works No.11686 & 11688;Lloyd's Rka.No. 8623 VS 28.2.61.VS & Lloyd's Rka.No. 8521 14.2.61.

483P

Port and No. of Certificate for Starting Air Receivers .....

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* ,, ,, ,, ... ,, ...

15/9/61

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? ..... *Are Certificates attached?* .....

„JUGOTURBINA" Tvornica parnih turbina i dizel motora KARLOVAC

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

Manufacturer

Is this machinery duplicate of a previous case? ..... *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 engines referred herein have been constructed under Special Survey in accordance with tge Rules of the Society's Approved plans and Secretary letters.
The material and workmanship are good.
On completion the engines were examined under full power condition on the test bed with satisfactory results and are in my opinion suitable for instalation in a ship classed with the Society.

Survey Fee £ 68-0-0 + 142800.-Din.
Expenses 23754.-Din.
Date when a/c rendered .....

(J.Racki) *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* M.V. "JOZEF CONRAD" *at* Rijeka *in a proper manner and found satisfactory when tested on the (date)* 3.11.61. *under full working conditions.*

F.G.Burn *Engineer Surveyor to Lloyd's Register*

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