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22 JAN 1962

of writing report 9.12.61 | Received London | Port Rijeka | No. 1370

5.10.60

y held at Karlovac | No. of visits 17 | First date 16.1.61 | Last date 20.11.61

FIRST ENTRY REPORT ON AUXILIARY INTERNAL COMBUSTION ENGINES

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

o Built at Rijeka by Brodogradiliste "3 Maj" when Yard No. 482

3. ciliary Engines ~~or Gas Turbines~~ made at Karlovac by Jugoturbina when 1961 Eng. Nos. P-120-121

6. al No. of sets and description (including type name) Two sets Jugoturbina-Sulzer Type 5BAH29

TERNAL COMBUSTION RECIPROCATING ENGINES. *No. of cylinders per engine* 5 *Dia. of cylinders* 290 mm *Stroke* 360 mm

ets and r 4 stroke cycle four *Maximum approved BHP* 500 *at* 500 *RPM* *Corresponding MIP* 11 kg/sq.cm *Maximum pressure* 60 kg/sq.cm

el marine Diesel Oil *Are cylinders arranged in Vee or other special formation?* in line *If so, No. of*

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

engine none *No. of exhaust gas driven blowers or superchargers per engine* one *Is welded construction*

d 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*

nkcase explosion relief devices 5; 0,0565 sq.m. *Are flame guards or traps fitted?* no *Cooling medium for: Cylinders* Fresh water

stons no cooling *No. of attached pumps: F.W. cooling* none *S.W. cooling* none *Lubricating oil* one *How is engine started?* with

ompressed air of max.30 kg/sq.cm. pressure.

HAFTING. *Is a damper or detuner fitted?* no *No. of main bearings* 6 *Are bearings of ball or roller type?* no *Distance between*

ner edges of bearings in way of cranks 338 mm *Crankshaft: Built, ~~semi-built~~, solid.* *Material of crankshaft* M.F. Steel *Approved*

nimum tensile strength 50 kg/sq.mm *Dia. of pins* 185 mm *Journals* 200 mm *Breadth of webs at mid throw* 295 mm *Axial*

ickness 92 mm *If shrunk, radial thickness around eyeholes* no *Dia. of flywheel* 1500 mm *Weight* 1350 Kg *Are balance*

ights fitted? no *Total weight* – *Rad. of gyration* – *Dia. of flywheel shaft* 200 mm

as each engine been tested in shop? Yes *How long at full power?* 6 hours *Was it tested with driven machinery attached?* Yes *Was the*

overning tested and found satisfactory? Yes *Date of approval of torsional vibration characteristics (for engines of 150 BHP and over)* 6.12.60 17.7.61 483-P

ate of approval of shafting *Identification marks on shafting* Lloyds SPT.No.2949 14.6.61; SPT.No.2948,14.6.61.

articulars of driven machinery Rade Koncar AC.Self Excited generator SC 1126-12 of 400 KVA:W.No.11690; 11689 Lloyds RKA.No.8932 VS 30-3-61; 8933 VS 3-4-61 VS.)

ort and No. of Certificate for Starting Air Receivers

G 26/2/62

UXILIARY GAS TURBINES. *BHP per set* *At* *RPM of output shaft. Open or closed cycle?*

rrangement of turbines. *HP drives* *at* *RPM* *HP gas inlet temp.* *pressure*

A small diagram should be ttached 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*

ecret *urbines 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?*

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? Yes *If so, which?* See Rpt.RKA.No. 1207 & 1295

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 the Rules of the Society's approved plans and Secretary letters.

The material and workmanship are good.

On completion of assembly the engines were examined under full power condition on the test bed with satisfactory results and are in my opinion suitable for installation in a ship classed with the Society.

Survey Fee £ 68-00-00 + 142.800.-din

Expenses 21.900.-din.

Late attendance 4.600.-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. Wyspianski *at* Rijeka *in a proper manner and found satisfactory when tested on the (date)* 17.5.62 *under full working conditions.*

F.G.Burn

Engineer Surveyor to Lloyd's Register

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