-5. FEB. 1962

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of writing report 21.1.62 Received London ..... Port Rijeka No. 1397

y held at Karlovac No. of visits 8 First date 22.2.61. Last date 17.1.62

FIRST ENTRY REPORT ON AUXILIARY INTERNAL COMBUSTION ENGINES

ne of Ship 127/60 Owners (Or Consignees) Brodogradiliste 3,Maj-Rijeka

Contract No. if name unknown).

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

ciliary Engines ~~or Gas Turbines~~ made at Karlovac by Jugoturbina when 1962 Eng. Nos. M273

al No. of sets and description (including type name) 1-Set Jugoturbina-Sulzer-Type 5BAH 22

TERNAL COMBUSTION RECIPROCATING ENGINES. No. of cylinders per engine 5 Dia. of cylinders 220 mm Stroke 320 mm

r 4 stroke cycle 4 Maximum approved BHP 300 at 500 RPM Corresponding MIP 11 kg/cm² Maximum pressure 62 kg/cm²

el Diesel Are cylinders arranged in Vee or other special formation? no If so, No. of

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

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

ed for: Bedplate? no Entablature? no Total internal volume of crankcase (if 20 cu. ft. or over) 1.730 cu m. No. and total area of

nkcase explosion relief devices 5 @ 0.0565 m² Are flame guards or traps fitted? no Cooling medium for: Cylinders fresh water

stons none No. of attached pumps: F.W. cooling none S.W. cooling none Lubricating oil one How is engine started? compressed air at 30 kg/cm²

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 245 mm Crankshaft ~~Built, semi-built~~ solid. Material of crankshaft MF.Steel Approved

inimum tensile strength 50 kg/cm² Dia. of pins 145 mm Journals 155 mm Breadth of webs at mid throw 280 mm Axial

ickness 64 mm If shrunk, radial thickness around eyeholes - Dia. of flywheel 1250 mm Weight 1250 kg Are balance

eights fitted? no Total weight - Rad. of gyration - Dia. of flywheel shaft 155 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 20/10/60

overning tested and found satisfactory? yes Date of approval of torsional vibration characteristics (for engines of 150 BHP and over) 4.10.60 18/11/60

ate of approval of shafting - Identification marks on shafting Lloyd's Spt. 5199 16.9.61. Rka. 17.1.62. JJ. Beulomor B 514 Vessler

Particulars of driven machinery Rade Koncar Self exciting AC.Generator 250 KVA. Sta,ped Lloyd's Rka.9168 11.5.61.

G 14/3/62

ort and No. of Certificate for Starting Air Receivers

UXILIARY GAS TURBINES. BHP per set ..... At ..... RPM of output shaft. Open or closed cycle? 12/4/62

Arrangement of turbines. (A small diagram should be attached showing gas cycle) HP drives ..... at ..... RPM HP gas inlet temp. ..... pressure ..... 534T.

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

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)

"JUGOTURBINA" Ivornica parnih turbina i dizel motora KARLOVAC 1

..... Manufacturer

Is this machinery duplicate of a previous case? yes If so, which? See Report No.1208

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 referred to above has been constructed under Special Survey in accordance with the approved plans and Secretary's letters.
The materials and workmanship are good.
On completion the engine was examined under full power conditions on the test bed with satisfactory results and is in our opinion suitable for installation in a ship classed with the Society.

Survey Fee £ 22-0-0 + 46200.-Din.
Expenses 8169.-Din.
Date when a/c rendered .....

..... Engineer Surveyor to Lloyd's Register (D.Racki and J.N.Jarvie)

Declaration to be signed by Surveyor at fitting-out Port:— The above described machinery has been fitted on board the M.V. "Wybojanski" at Rijeka in a proper manner and found satisfactory when tested on the (date) 17.5.62 under full working conditions.

..... Engineer Surveyor to Lloyd's Register

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