Rpt. 4c

3 NOV 1958

Date of writing report 27.10.58 Received London ..... Port BILBAO No. 12426

Survey held at Santander No. of visits 2 First date 8.7.58 Last date 21.7.58

FIRST ENTRY REPORT ON AUXILIARY INTERNAL COMBUSTION ENGINES

Name of Ship "JOSELIN" Owners (Or Consignees) J.M. Pombo Romero-Robledo

(Or Contract No. if name unknown).

Ship Built at Santander by Corcho Hijos S.A. when 1958 Yard No. 71

Auxiliary Engines or Gas Turbines made at Barcelona by Mamci S.A. when 1958 Eng. Nos. 1798

Total No. of sets and description (including type name) one type 4L1

INTERNAL COMBUSTION RECIPROCATING ENGINES. No. of cylinders per engine 4 Dia. of cylinders 119 m/m Stroke 136 m/m

2 or 4 stroke cycle 4 Maximum ~~approved~~ BHP 40 at 1000 RPM Corresponding MIP ..... Maximum pressure .....

Fuel Diesel 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 None No. of exhaust gas driven blowers or superchargers per engine None Is welded construction

used for: Bedplate? No Entablature? No Total internal volume of crankcase (if 20 cu. ft. or over) under 20 cu.ft. No. and total area of

crankcase explosion relief devices none Are flame guards or traps fitted? - Cooling medium for: Cylinders F.W.

Pistons None No. of attached pumps: F.W. cooling One S.W. cooling None Lubricating oil One How is engine started? by hand

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 306 m/m Crankshaft: ~~Built, semi-built~~, solid. Material of crankshaft forged steel Approved

minimum tensile strength 92 Kg/mm2 Dia. of pins 76 m/m Journals 76 m/m Breadth of webs at mid throw 124 m/m Axial

thickness 45 & 94 mm. If shrunk, radial thickness around eyeholes - Dia. of flywheel 655 Weight 170 Kgs. Are balance

weights fitted? No Total weight (by makers) Rad. of gyration - Dia. of flywheel shaft -

Has each engine been tested in shop? Yes How long at full power? 2 hrs. Was it tested with driven machinery attached no-brake Was the

governing tested and found satisfactory? Yes (tested on board) Date of approval of torsional vibration characteristics (for engines of 150 BHP and over) -

Date of approval of shafting - Identification marks on shafting none (results by ERNST hardness teste = 271Bri)

Particulars of driven machinery 1 - 20 KW generator

Port and No. of Certificate for Starting Air Receivers None

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 None

For generators under 100 Kw., has Makers' Certificate been obtained? 2nd hand Generator Are Certificates attached? Yes with Electrical Rpt.

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? "MIGUELIN POMBO"

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.*

Engine not constructed under survey but completely dismantled and examined shipyard. Materials and workmanship appear good, crankshaft Brinell tested. Afterwards engine tested under working conditions on board vessel and found satisfactory. This auxiliary engine in our opinion is eligible to be included in the machinery classification of the vessel.

Survey Fee 1.000

Expenses -

Date when a/c rendered 31 x 58

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. JOSELIN at Santander in a proper manner and found satisfactory when tested on the (date) 21-7-58 under full working conditions.

Engineer Surveyor to Lloyd's Register

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