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30 JUN 1950

Bel. 15293



Rpt. 4c. **REPORT ON OIL ENGINE ELECTRIC GENERATOR SETS.** No. 858

Received at London Office 30 JUN 1950

Date of writing Report 19... When handed in at Local Office 19... Port of NOTTINGHAM.

No. in Survey held at Lincoln. Date, First Survey... Last Survey... 19... Number of Visits...

on the Single Screw vessel M.S. "JUAN PERON" Tons Gross 26140.93 Net 17917.05

Built at Belfast. By whom built Harland & Wolff Ltd., Yard No. 1384. When built 10/51.

Owners COMPANIA ARGENTINA DE PESCA S.A. Port belonging to BUENOS AIRES

Oil Engines made at Lincoln. By whom made Ruston & Hornsby Ltd., Contract No. 480064. When made 1950.

Generators made at Belfast. By whom made Harland & Wolff Ltd., Contract No. ... When made 1950.

No. of Sets 1 Engine Brake Horse Power 204 M.N. as per Rule 51 Total Capacity of Generators 120 Kilowatts.

Is Set intended for essential services Yes.

**OIL ENGINES, &c.**—Type of Engines 6VCBZ. No. 280235. 2 or 4 stroke cycle 4 Single or double acting SA

Maximum pressure in cylinders 750 lb. Diameter of cylinders 8" Length of stroke 10 3/4" No. of cylinders 6 No. of cranks 6

Mean indicated pressure 104 lb. Firing order in cylinders 1.5.3.6.2.4. Span of bearings, adjacent to the Crank, measured from inner edge to inner edge 9.3/16"

Is there a bearing between each crank Yes Moment of inertia of flywheel 5.3 Tons.ft. Revolutions per minute 600

Flywheel dia. 12.3 cwt. Weight 12.3 cwt. Means of ignition Compression Kind of fuel used Diesel Oil.

Crank Shaft, dia. of journals 6" Crank pin dia. 4.3/4" Crank Webs 8" Mid. length thickness 2 1/2" shrunk

Flywheel Shaft, diameter C/shaft. Intermediate Shafts, diameter ... General armature, moment of inertia (16 m<sup>2</sup> or Kg.-cm.<sup>2</sup>)

Are means provided to prevent racing of the engine when declutched Yes Means of lubrication Forced Kind of damper if fitted

Are the cylinders fitted with safety valves Yes Are the exhaust pipes and silencers water cooled or lagged with non-conducting material

Cooling Water Pumps, No. one engine driven Is the sea suction provided with an efficient strainer which can be cleared within the vessel

Lubricating Oil Pumps, No. and size one, engine driven 480 gals./hour.

Air Compressors, No. ... No. of stages ... Diameters ... Stroke ... Driven by ...

Scavenging Air Pumps, No. ... Diameter ... Stroke ... Driven by ...

**AIR RECEIVERS:**—Have they been made under Survey Yes State No. of Report or Certificate NOTTINGHAM C10796.

Is each receiver, which can be isolated, fitted with a safety valve as per Rule Yes

Can the internal surfaces of the receivers be examined Yes What means are provided for cleaning their inner surfaces HANDHOLE

Is there a drain arrangement fitted at the lowest part of each receiver Yes

**High Pressure Air Receivers, No.** ... Cubic capacity of each ... Internal diameter ... thickness ...

Seamless, lap welded or riveted longitudinal joint ... Material ... Range of tensile strength ... Working pressure by Rules ...

**Starting Air Receivers, No.** ONE Total cubic capacity 11.2 cub/ft. Internal diameter 2'-0" thickness 5/16"

Seamless, lap welded or riveted longitudinal joint ... Material ... Range of tensile strength ... Working pressure by Rules 300 lbs/sq. in.

**ELECTRIC GENERATORS:**—Type Open canopy CW. CR. No. 9273.

Pressure of supply 110 volts. Full Load Current 1090 Amperes. Direct or Alternating Current D.C.

If alternating current system, state the periodicity ... Has the Automatic Governor been tested and found as per Rule when full load is suddenly thrown on and off Yes Generators, are they compounded as per Rule Yes is an adjustable regulating resistance fitted in series with each shunt field Yes

Are all terminals accessible, clearly marked, and furnished with sockets Yes Are they so spaced

or shielded that they cannot be accidentally earthed, short circuited, or touched Yes Are the lubricating arrangements of the generators as per Rule Yes

If the generators are under 100 kw. full load rating, have the makers supplied certificates of test ... and do the results comply with the requirements

If the generators are 100 kw. or over have they been built and tested under survey Yes

Details of driven machinery other than generator

**PLANS.**—Are approved plans forwarded herewith for Shafting 20.12.38. Receivers ... Separate Tanks ...

Have Torsional Vibration characteristics if applicable been approved 19.8.48. Armature shaft Drawing No. ...

**SPARE GEAR** Rule Requirements.

The foregoing is a correct description,

Ruston & Hornsby Limited. Manufacturer.

J.F. Burchnall Engineering Divn.



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Lloyd's Register Foundation

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Dates of Survey while building { During progress of work in shops - - } 24.4.50. 10.5.50.  
 { During erection on board vessel - - }  
 Total No. of visits 2

Dates of Examination of principal parts—Cylinders 24.4.50. Covers as cyls. Pistons as cyls. Piston rods -

Connecting rods as cyls. Crank and Flywheel shafts as cyls. Intermediate shafts

Crank shaft { Material Tensile strength  
 Elongation Identification Marks LL.4217. RE.1802. TDS.

Flywheel shaft, Material Identification Marks

Identification marks on Air Receivers E.W. 1878. LLOYD'S TEST 600 lbs/sq. W.P. 300 lbs/sq. J.B.T. 15.5.50.

Is this machinery duplicate of a previous case. If so, state name of vessel.

**GENERAL REMARKS** (State quality of workmanship, opinions as to class, &c.)

This machinery has been built under Special Survey, in accordance with Approved plans and Rules and Regulations of the Society, materials and workmanship being good.

On completion the generating set was tried in the shops under working conditions, and the governing tested with satisfactory results.

The set has been despatched to Belfast for installation on board the vessel.

*This Generating Unit has been efficiently installed, and examined under full working conditions with satisfactory results.*

*J. P. E-mail*

501.148-T. (MADE AND PRINTED IN ENGLAND)  
 (The Surveyors are requested not to write on or below the space for Committee Minute.)

The amount of Fee ... £ 10 : 4 : 0 { When applied for 20.6.19.50  
 Travelling Expenses (if any) £ : : { When received 19

Committee's Minute FRI 21 DEC 1951

Assigned See P.E. Nichy. rpt.

