

REPORT ON OIL ENGINE ELECTRIC GENERATOR SETS.

CENTRIFUGAL PUMP

No. 2,244

Received at London Office

23 JUL 1945

MANCHESTER.

Date of writing Report 9th July 1945 When handed in at Local Office 20th July 1945. Port of

No. in Survey held at ALTRINCHAM.

Date, First Survey 12th April

Last Survey 3rd May, 1945.

 on the Single
Twin
Triple
Quadruple Screw vessel

Empire Sigron

Number of Visits

 Gross 890
Net 379

built at Glasgow

By whom built A & J. Inglis Ltd.

Card No. 1285

When built 1945

owners. *nowy (British Tankers Ltd)*

Port belonging to Glasgow

Oil Engines made at Altrincham

By whom made Russell Newbery & Co. Ltd.

Engine No. 3883 When made 1945

Generators made at Stockport

By whom made McClure & Whitfield

Generator No. 10218 When made 1945

No. of Sets 1 Engine Brake Horse Power 18 Nom. Horse Power as per Rule 5.1 Total Capacity of Generators 6 1/2 Kilowatts

OIL ENGINES, &c.—Type of Engines Vertical Solid Injections Heavy Oil or 4 stroke cycle 4 Single or double acting single

Maximum pressure in cylinders 860 lbs/sq. in. Diameter of cylinders 4.1/8" Length of stroke 6" No. of cylinders 2 No. of cranks 2

Span of bearings, adjacent to the Crank, measured from inner edge to inner edge 5.1/8" Is there a bearing between each crank Yes

Revolutions per minute 1000 Flywheel dia. 25" Weight 345 lbs. Means of ignition Compression Kind of fuel used Diesel Oil

Crank Shaft, dia. of journals as per Rule Approved Crank pin dia. 2.3/8" Crank Webs Mid. length breadth 3 1/2" Thickness parallel to axis

Flywheel Shaft, diameter as per Rule Intermediate Shafts, diameter as fitted Thickness of cylinder liners 11/32" as fitted

Is a governor or other arrangement fitted to prevent racing of the engine when declutched Yes Means of lubrication Forced

Are the cylinders fitted with safety valves No Are the exhaust pipes and silencers water cooled or lagged with non-conducting material

Cooling Water Pumps, No. One-plunger type Is the sea suction provided with an efficient strainer which can be cleared within the vessel

Lubricating Oil Pumps, No. and size One-gear type

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 State No. of Report or Certificate

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

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

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

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. Total cubic capacity Internal diameter thickness

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

ELECTRIC GENERATORS:—Type Compound Wound Continuous Rating V.E. Louvred type.

Pressure of supply 110 volts Full Load Current 59 Amperes Direct or Alternating Current Direct

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 Yes and do the results comply with the requirements Yes

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

PLANS.—Are approved plans forwarded herewith for Shipping 1. 9. 44. (if not, state date of approval)

Receivers

Separate Tanks

SPARE GEAR As per Rule Requirements.

The foregoing is a correct description,

per pro. RUSSELL, NEWBERY & Co. Ltd.

Manufacturers.

J. C. Russell

DIRECTOR.



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Lloyd's Register Foundation

011940-011946-0153

Dates of Survey while building { During progress of work in shops - - 1945 April 12, 28, 30. May 3. During erection on board vessel - - - - - Total No. of visits - - - - -

Dates of Examination of principal parts - Cylinders 12. 4. 45 Covers 28 & 30. 4. 45. Pistons 12. 4. 45. Piston rods -

Connecting rods 12. 4. 45. Crank and Flywheel shafts 12. 4. 45. Intermediate shafts -

Crank shaft { Material O.H. Steel Tensile strength Identification Marks LLOYD'S J.2529.BG. 28.6. 44. ✓ Elongation

Flywheel shaft, Material Identification Marks

Is this machinery duplicate of a previous case Identification Marks

Identification marks on Air Receivers

Hamworthy Centrifugal Pump No.66829.

Is this machinery duplicate of a previous case Yes If so, state name of vessel A. & J. Inglis Yard No.J.283(Mch.Rpt.No.

GENERAL REMARKS (State quality of workmanship, opinions as to class, &c.) THIS ENGINE HAS BEEN CONSTRUCTED UNDER SPECIAL

SURVEY OF TESTED MATERIALS AND IS IN ACCORDANCE WITH THE SECRETARY'S LETTERS, APPROVED PLANS AND RULE REQUIREMENTS. THE MATERIALS AND WORKMANSHIP ARE OF A GOOD QUALITY AND THE ENGINE, WHEN TESTED IN THE SHOP UNDER FULL LOAD CONDITIONS SHewed SATISFACTORY RESULTS. THE REQUIREMENTS OF NOTICE NO.1 HAVE, HOWEVER, NOT YET BEEN CARRIED OUT. WHEN THIS HAS BEEN DONE AND APPROVED, THE ENGINE WILL BE IN MY OPINION, BE SUITABLE TO BE PLACED ON BOARD A VESSEL CLASSed WITH THIS SOCIETY FOR THE PURPOSE INTENDED.

COPIES OF CERTIFICATES COVERING GENERATOR AND CENTRIFUGAL PUMP ATTACHED HEREWITH.

Not dealt with for Circ 1803

The amount of Fee ... £ 4 : 4 : 0 When applied for 21. 7. 19 45.

Travelling Expenses (if any) £ 0 : 12 : 6 When received 19

Committee's Minute

GLASGOW

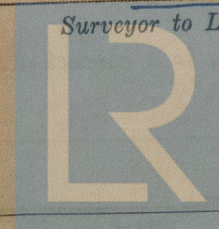
23 OCT 1945

Assigned

SEE ACCOMPANYING

CHINERY REPORT.

Surveyor to Lloyd's Register of Shipping.



Lloyd's Register Foundation