

2396



Rpt. 4c.

REPORT ON OIL ENGINE ELECTRIC GENERATOR SETS.

No. 16845

Received at London Office

APR 1947

Date of writing Report **17th Jan 1947** When handed in at Local Office **7. 4. 1948** Port of **BRIS TOL.**

No. in Survey held at **Dursley, Glos.** Date, First Survey **10th July, 1946** Last Survey **3rd January 1947.**

Reg. Book. **38.11.3** Number of Visits **3**
Single }
on the Twin } Screw vessel
Triple }
Quadruple }

Built at **Govan** By whom built **Harland & Wolff** Yard No. When built

Owners **TSI** Port belonging to

Oil Engines made at **Dursley** By whom made **R.A. Lister (Marine Sales) Ltd** Engine No. **CS.55094** When made **1946**

Generators made at By whom made Contract No. When made

No. of Sets Engine Brake Horse Power **18** Nom. Horse Power as per Rule Total Capacity of Generators Kilowatts

OIL ENGINES, &c.—Type of Engines **Heavy Oil, Airless Injection** 2 or 4 stroke cycle **4** Single or double acting **single**

Maximum pressure in cylinders **800lbs** Diameter of cylinders **4 1/2"** Length of stroke **5 1/2"** No. of cylinders **2** No. of cranks **2**

Span of bearings, adjacent to the Crank, measured from inner edge to inner edge **14.5/16"** Is there a bearing between each crank **No 2 cranks**

Revolutions per minute **1000** Flywheel dia. **2 - 26"** Weight **308lbs** Means of ignition **compression** Kind of fuel used **heavy oil**

Crank Shaft, dia. of journals as per Rule **3"** Crank pin dia. **3"** Crank Webs Mid. length breadth **4 1/4"** Thickness parallel to axis **3 1/2"** shrunk Thickness round eyehole

Flywheel Shaft, diameter as per Rule **2 3/4"** Intermediate Shafts, diameter as fitted **5/16"** Thickness of cylinder liners **5/16"**

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

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

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

Lubricating Oil Pumps, No. and size

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

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

Generators, are they compounded as per Rule is an adjustable regulating resistance fitted in series with each shunt field

Are all terminals accessible, clearly marked, and furnished with sockets Are they so spaced or shielded that they cannot be accidentally earthed, short circuited, or touched

Are the lubricating arrangements of the generators as per Rule

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

PLANS:—Are approved plans forwarded herewith for Shafting Receivers Separate Tanks

SPARE GEAR

The foregoing is a correct description,

R.P. R. A. LISTER (MARINE SALES) LTD.

Manufacturer.

LB



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Lloyd's Register Foundation

006903-006911-0254

Dates of Survey while building: During progress of work in shops - - 10.7.46. 5.11.46 3.1.47.
 During erection on board vessel - - -
 Total No. of visits 3

Dates of Examination of principal parts: Cylinders 5.11.46 Covers 5.11.46 Pistons 5.11.46 Piston rods

Connecting rods 5.11.46 Crank and Flywheel shafts 10.7.46 Intermediate shafts

Crank shaft: Material Steel Tensile strength 40.28 tons sq. inch.
 Elongation 32% Identification Marks Lloyd's 127 S

Flywheel shaft, Material Identification Marks

Is this machinery duplicate of a previous case Identification Marks

Identification marks on Air Receivers

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

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

This Auxiliary Oil Engine has been built under Special Survey. Water jackets tested with hydraulic pressure 100 lbs. per sq. inch and found sound and tight. The workmanship and materials has been found good. Crankshaft taken from Maker's stock, test pieces proved satisfactory. After assembly the engine examined during a full load test bed running trial of several hours duration; governor tried and found satisfactory.

Identification Marks M1624 S Engine made to the order of (Messrs. Hall Russell & Co., Ltd.)

Harland & Wolff, Govan

1m, 11, 12, 13 - 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 ... £ 4 : 0 : 0 } When applied for 7.4.1918
 Travelling Expenses (if any) £ 1 : 0 : 0 } When received 19

J. Brooke Smith
 Surveyor to Lloyd's Register of Shipping.

Committee's Minute
 Assigned

