

Rpt. 4c.

REPORT ON OIL ENGINE ELECTRIC GENERATOR SETS.

502560

Sld. No. 32560

Sld. No. 20756

NOV 12 1938

Date of writing Report 11. 11. 1938 When handed in at Local Office 11. 11. 1938 Port of Grimsby Sld. No. 1. 39

No. in Survey held at Lincoln Date, First Survey 24. 6. 37, Last Survey 28. 10. 1938 Number of Visits 7

Reg. Book. Single on the Triple Screw vessel m.v. British Genius Tons Gross 8553 Net 4961

Built at Sunderland By whom built W. D. Oxford Sons Ltd Yard No. 644 When built 1938 Port belonging to London.

Owners British Tanker Co. Ltd ENGINE Contract No. 191594 When made 1938

Oil Engines made at Lincoln By whom made Ruston & Hornsby, Ltd GENERATOR Contract No. F5434 When made 1938

Generators made at Sunderland By whom made Sunderland Eng. & Eng. Co. Ltd Total Capacity of Generators 30 Kilowatts.

No. of Sets One Engine Brake Horse Power 48 Nom. Horse Power as per Rule 14

OIL ENGINES, &c. Type of Engines 5192 - Vertical Solid Injection 2 or 4 stroke cycle 4 Single or double acting Single

Maximum pressure in cylinders 800 Diameter of cylinders 5 3/8" Length of stroke 8" No. of cylinders 5 No. of cranks 5

Span of bearings, adjacent to the Crank, measured from inner edge to inner edge 6 1/4" Is there a bearing between each crank Yes

Revolutions per minute 600 Flywheel dia. 32" Weight 1120 lbs. Means of ignition Compression Kind of fuel used Heavy oil

Crank Shaft, dia. of journals as per Rule Approved 3 5/8" Crank pin dia. 3 1/4" Crank Webs Mid. length breadth 5 7/8" Thickness parallel to axis 1 3/4" shrunk Thickness around eye hole 1/2"

Flywheel Shaft, diameter as per Rule Approved 3 3/8" Intermediate Shafts, diameter as per Rule as fitted Thickness of cylinder liners 1/2"

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 Yes Are the exhaust pipes and silencers water cooled or lagged with non-conducting material Water cooled

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

Lubricating Oil Pumps, No. and size One, Twin, Gear Driven

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

Scavenging Air Pumps, No. Diameter Stroke Driven by

AIR RECEIVERS:—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 Enclosed

Pressure of supply 110 volts. Load 243 Amperes. Direct or Alternating Current Direct

If alternating current system, state frequency of periods per second

Has the Automatic Governor been tested and found efficient when the whole load is suddenly thrown on or off Yes

Generators, do they comply with the requirements regarding rating are they compound wound Yes

are they over compounded 5 per cent. if not compound wound state distance between each generator

is an adjustable regulating resistance fitted in series with each shunt field 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

PLANS. Are approved plans forwarded herewith for Shafting 18. 4. 35 Receivers Separate Tanks

SPARE GEAR

As per Rule Requirements

The foregoing is a correct description.

Ruston & Hornsby, Limited

Hea Kimbol

Manufacturer.

08 & Gay Flagman Dev

002449-002456-0107

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Lloyd's Register Foundation

Dates of Survey while building { During progress of work in shops - - } 1937 Jun 24 Jul 5 Aug 9 Oct 21 Dec 20 1938 Oct 4-28
 { During erection on board vessel - - - }
 Total No. of visits 7.

Dates of Examination of principal parts - Cylinders 28-10-38 Covers 28-10-38 Pistons 28-10-38 Piston rods ✓
 Connecting rods 4-10-38 Crank and Flywheel shaft 21-10-37 Intermediate shaft ✓
 Crank and Flywheel shafts, Material Steel Identification Mark LLOYD'S 3283-21-10-37 AS.
 Intermediate shafts, Material ✓ Identification Marks
 Is this machinery duplicate of a previous case Yes If so, state name of vessel Gun Rpt No 1967 S.
 General Remarks (State quality of workmanship, opinions as to class, &c.)

This engine has been built under special survey in accordance with the Rules and approved plans.

The workmanship and materials are good. Running tests have been carried out at the Makers works with satisfactory results.

The set has been despatched Messrs. Delford & Sons, Sunderland, for fitting on board the vessel.

Request form attached to Gun Rpt 20557.

9/3139/P/IV.6473-37/IV.1468

The amount of Fee ... £ 5 : -
 { Travelling Expenses (if any) £ - : -
 (Monthly) 18.1.1939 sum.

Richard

Surveyor to Lloyd's Register of Shipping.

Committee's Minute

Assigned

Rpt. 13.

Date of writing Report

No. in Survey Reg. Book. 87277 on the

Built at Su
 Owners Bu
 Electric Light
 Is the Vessel fit

System of Dist

Pressure of sup

Direct or Alter

If alternating cu

Has the Autom

Generators, do

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Are turbine

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voltmeters

Yes

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do these c



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