

REPORT ON OIL ENGINE ELECTRIC GENERATOR SETS.

No. 20840

JAN 21 1939

Received at London Office

Date of writing Report 20.1.39 When handed in at Local Office 20.1.39 Port of Grimsby
 No. in Survey held at Lincoln Date, First Survey 19.9.38 Last Survey 13.1.1939
 Reg. Book. Number of Visits 8

on the Single Twin Triple Quadruple Screw vessel PRINCESS VICTORIA Tons Gross 2197 Net 1032

Built at Lumberton By whom built Lenny Bros Yard No. 1333 When built

Owners Port belonging to
 Oil Engines made at Lincoln By whom made Ruston & Hornsby, Ltd ENGINE Contract No. 194738 When made 1938
 Generators made at Manchester By whom made Lancashire Dynamo & Electric, Ltd GENERATOR Contract No. 141314 When made 1938
 No. of Sets One Engine Brake Horse Power 22½ Nom. Horse Power as per Rule 6.4 Total Capacity of Generators 14 Kilowatts.

OIL ENGINES, &c.—Type of Engines 3 VSOZ Vertical Solid Injection 2 or 4 stroke cycle 4 Single or double acting Single
 Maximum pressure in cylinders 800 lbs Diameter of cylinders 4½ Length of stroke 4½ No. of cylinders 3 No. of cranks 3
 Span of bearings, adjacent to the Crank, measured from inner edge to inner edge 5½ Is there a bearing between each crank Yes
 Revolutions per minute 1000 Flywheel dia. 22½ Weight 346 lbs Means of ignition Compression Kind of fuel used Heavy oil
 Crank Shaft, dia. of journals as per Rule Approved as fitted 2½ - 3 centre Crank pin dia. 2¾ Crank Webs Mid. length breadth 3¾ Thickness parallel to axis 3¾
 Flywheel Shaft, diameter as per Rule Approved as fitted 2½ Intermediate Shafts, diameter as per Rule as fitted Thickness of cylinder liners 5/16
 Is a governor or other arrangement fitted to prevent racing of the engine when declutched Yes Means of lubrication Grease
 Are the cylinders fitted with safety valves No, hand starting 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 One, geared
 Air Compressors, No. One No. of stages Two Diameters 3¾ x 1½ Stroke 3¾ Driven by Engine
 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 Enclosed, Ship-Proof
 Pressure of supply 110 volts. Full Load Current 127 Amperes. Direct or Alternating Current Direct
 If alternating current system, state the periodicity Has the Automatic Governor been tested and found efficient when the whole 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 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 Shafting 22.8.36 Receivers Separate Tanks 6.1.39
 (If not, state date of approval)

SPARE GEAR

As per Rule requirements.

The foregoing is a correct description.

Ruston & Hornsby Limited,

E. W. G. Manufacturer.

Oil & Gas Engine Dept.



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Lloyd's Register Foundation

W285-0123

Dates of Survey while building { During progress of work in shops - - 1938 Sep 19 Oct 20 Nov 21 Dec 1.12 1939 Jan 5.13
 { During erection on board vessel - - -
 Total No. of visits 8

Dates of Examination of principal parts - Cylinders 19.9.38 Covers 19.9.38 Pistons 19.9.38 Piston rods
 Connecting rods 19.9.38 Crank and Flywheel shafts 1.12.38 Intermediate shafts
 Crank and Flywheel shafts, Material Steel Identification Marks LLOYD'S 5035-1.12.38AS
 Intermediate shafts, Material Housing Identification Marks LLOYD'S 3453-19.9.38AS
 Identification marks on Air Receivers

Is this machinery duplicate of a previous case Yes If so, state name of vessel Gmo Rpt no 20812

General Remarks (State quality of workmanship, opinions as to class, &c.)

This engine and compressor have been built under special survey in accordance with the Rules, Secretan's letters & approved plans.
 The workmanship and materials are good.
 Running tests have been carried out at the Maker's works with satisfactory results.
 The engine is direct coupled to generator N° 141314, and compressor N° 41323 is driven by pulley and belt.
 The set is being despatched to Messrs W. Lenny & Bros., Ltd., Lumberton, for fitting on board the vessel.

Request form attached.

9/4705/1/38/11/732
 11/110045

The amount of Fee ... £ 3 : - : When applied for, 20.1.39
 Travelling Expenses (if any) £ : : When received, 9.3.39
 (per hour etc.)

Committee's Minute GLASGOW 11 JUL 1939
 Assigned SEE ACCOMPANYING MACHINERY REPORT.

Bluelie
 Surveyor to Lloyd's Register of Shipping.