

REPORT ON OIL ENGINE ELECTRIC GENERATOR SETS.

Bel. 12 227

20613

No. ~~2059~~

JUN 25 1938

Date of writing Report 15.6.38 When handed in at Local Office 24.6.38 Port of Grimsby
 No. in Survey held at Reg. Book. 86062 on the ^{Single} ~~Twin~~ ~~Triple~~ ~~Quadruple~~ Screw vessel "Waimarama"
 Date, First Survey 25.7.34 Last Survey 3.6.1938 Number of Visits 19
 Built at Belfast By whom built Harland & Wolff, Ltd. Yard No. 1004 When built 1938
 Owners Port belonging to Southampton
 Oil Engines made at Lincoln By whom made Ruston & Hornsby, Ltd. ENGINE Contract No. 192831 When made 1938
 Generators made at Norwich By whom made Lawrence, Scott & Electromotors, Ltd. GENERATOR Contract No. 76333 When made 1938
 No. of Sets One Engine Brake Horse Power 40 Nom. Horse Power as per Rule 8.4 Total Capacity of Generators 25 Kilowatts.

OIL ENGINES, &c.—Type of Engines 3192 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 3 No. of cranks 3
 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 445 Flywheel dia. 32 Weight 700 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 3/8 Thickness parallel to axis 1 3/4 Mid. length thickness 1 3/4 Thickness around eye-hole 1/2
 Flywheel Shaft, diameter as per Rule Approved 3 5/8 Intermediate Shafts, diameter as per Rule 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 Greased
 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 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. 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 Screen-protected

Pressure of supply 220 volts. Load 114 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

Generators, do they comply with the requirements regarding rating

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

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

PLANS. Are approved plans forwarded herewith for Shafting 7.7.32
 (If not, state date of approval)

Receivers

Separate Tanks

SPARE GEAR

As per Rule requirements.

The foregoing is a correct description,

Ruston & Hornsby, Limited,

H. Geo. Kimber

Manufacturer.



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Lloyd's Register
Foundation

W1184 -D233

1934 July 23.26. Aug 7.9.13. 20 22.23.27.30 Sep 3.6. Nov 8.
 1938 Jan 27 Feb 3.21 May 9.10 Jun 2.3

Dates of Survey while building
 During progress of work in shops - -
 During erection on board vessel - - -
 Total No. of visits

19.

Dates of Examination of principal parts—Cylinders 3-6-38 Covers 3-6-38 Pistons 3-6-38 Piston rods ✓

Connecting rods 10-5-38 Crank and Flywheel shaft 8-11-34 - 3-6-38 Intermediate shaft ✓

Crank and Flywheel shafts, Material Steel Identification Mark LLOYD'S 3202-8-11-34 CHIP

Intermediate shafts, Material ✓ Identification Marks Housing 3426-9-5-38 AS

Is this machinery duplicate of a previous case Yes If so, state name of vessel Grimsby Rpt 19187

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 is being despatched to Belfast for fitting on board the vessel.

This set has been efficiently installed on the Shelter Deck at the fore end of the Main engine casing, tried out under full working conditions with satisfactory results.

Charles W. Dun
 Belfast
 12/10/38

Request form attached

95278/T/37/12/2354 - P/IV. 4204

The amount of Fee To be included in Annual Account When applied for, 19.

Travelling Expenses (if any) When received, 19.

Qualification for L.H.A. Pilotage & Self.
 Surveyor to Lloyd's Register of Shipping.

Committee's Minute

TUE. 25 OCT 1938

Assigned

See F.E. machy sp.



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