

REPORT ON OIL ENGINE ELECTRIC GENERATOR SETS.

No. 20491

Received at London Office

MAR 19 1938

Date of writing Report 16th March 1938 When handed in at Local Office 18. 3. 38 Port of Grimsby
 No. in Survey held at Lincoln Date, First Survey 22. 4. 37 Last Survey 14th March 1938
 Reg. Book. Number of Visits 8

Single
on the Twin
Triple
Quadruple } Screw vessel
 Built at Shegar By whom built Messrs. Harland & Wolff, Ltd. Yard No. When built

Port belonging to
 Owners
 Oil Engines made at Lincoln By whom made Ruston & Hornsby, Ltd. ENGINE Contract No. 185385 When made 1938
 Generators made at By whom made Contract No. When made
 No. of Sets 1 Engine Brake Horse Power 60 Nom. Horse Power as per Rule 18.6 Total Capacity of Generators Kilowatts.

OIL ENGINES, &c.—Type of Engines 3 VCRZ Vertical Solid Injection 2 or 4 stroke cycle 4 Single or double acting Single
 Maximum pressure in cylinders 700 Diameter of cylinders 8" Length of stroke 10 3/4" No. of cylinders 3 No. of cranks 3
 Span of bearings, adjacent to the Crank, measured from inner edge to inner edge 9 1/8" Is there a bearing between each crank Yes
 Revolutions per minute 450 Flywheel dia. 3'-4" Weight 198 lbs. Means of ignition Compression Kind of fuel used Heavy Oil
 Crank Shaft, dia. of journals as per Rule Approved Crank pin dia. 4 3/4" Crank Webs 8" Mid. length breadth 8" Thickness parallel to axis
 as fitted 6" Mid. length thickness 2 1/2" Thickness around eye hole
 Flywheel Shaft, diameter as per Rule Approved Intermediate Shafts, diameter as per Rule Thickness of cylinder liners 3/4"
 as fitted 6" 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 Yes Are the exhaust pipes and silencers water cooled or lagged with non-conducting material Water
 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. 61859E No. of stages Two Diameters Stroke 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
 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 efficient when the whole 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 11. 11. 32 Receivers Separate Tanks
 (If not, state date of approval)

SPARE GEAR

As per Rule requirements.

Ruston & Hornsby, Limited
 The foregoing is a correct description,

E. L. Loxton

Manufacturer.

Oil & Gas Engines Dept.



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Dates of Survey while building
 During progress of work in shops - 1937 Apr 22 Jun 3. 11. 24. 26. 19. 22 Aug 12. 26 Sep 30. 30 Nov 12. 17 Dec 14 1938 Jan 6. 30. 37 Mar 10. 14
 During erection on board vessel - - - 18
 Total No. of visits

Dates of Examination of principal parts - Cylinders 27-1-38 Covers 27-1-38 Pistons 27-1-38 Piston rods ✓
 Connecting rods 14-12-37 Crank and Flywheel shafts 12-11-37 Intermediate shafts ✓
 Crank and Flywheel shafts, Material Steel Identification Marks LLOYD'S 3332-12-11-37 AS
 Intermediate shafts, Material ✓ Identification Marks ✓
 Identification marks on Air Receivers ✓

Is this machinery duplicate of a previous case Yes If no, state name of vessel Gun Rpt 20376 Mr Kahle

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

This engine & compressor have 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 to Glasgow to the order of Messrs Harland & Wolff, Ltd for fitting on board the vessel.

Request from attached Gun Rpt 20376.

9/3800/P/11.8939. 37/11.934

The amount of Fee ... £

Travelling Expenses (if any) £

To be signed
 When Received, 19...
 Annual Account 19...

Charles J. L. H. Collinson & Self.
 Surveyor to Lloyd's Register of Shipping.

WED 3 AUG 1938

Committee's Minute

Assigned

See fls. J.E. 59977



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