

t. 4c.

REPORT ON OIL ENGINE ELECTRIC GENERATOR SETS.

No. 20574.

Date of writing Report 4. 6 38 When handed in at Local Office 4. 6 38 Port of Grimsby
 Date, First Survey 9. 8. 37 Last Survey 12. 5. 1938
 No. in Survey held at Lincoln
 Date, First Survey 9. 8. 37 Last Survey 12. 5. 1938
 Number of Visits

on the Single Twin Triple Quadruple Screw vessel Mr. Crista
 Tons { Gross
 Net

Built at By whom built Yard No. When built

Owners Port belonging to

Oil Engines made at Lincoln By whom made Ruston & Hornsby, Ltd. ENGINE Contract No. 187327 When made 1938

Generators made at By whom made Contract No. When made

No. of Sets 1 Engine Brake Horse Power 40 Nom. Horse Power as per Rule 12.46 Total Capacity of Generators Kilowatts.

IL ENGINES, &c.—Type of Engines 2 VCRZ—Vertical Solid Injection 2 or 4 stroke cycle 4 Single or double acting Single

Maximum pressure in cylinders 700 lbs. Diameter of cylinders 8" Length of stroke 10 3/4" No. of cylinders 2 No. of cranks 2

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 6" as fitted 6" Crank pin dia. 4 3/4" Crank Webs Mid. length breadth 8" Mid. length thickness 2 1/2" Thickness parallel to axis Thickness around eyehole

Flywheel Shaft, diameter as per Rule 6" as fitted 6" Intermediate Shafts, diameter as per Rule Thickness of cylinder liners 3/4"

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. 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

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

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 compound wound

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 11. 11. 32 Receivers Separate Tanks

SPARE GEAR

As per Rule requirements.

Ruston & Hornsby, Limited

The foregoing is a correct description,

R. Lloyd

Oil & Gas Engines Dept.

Manufacturer.



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010580-010588-0105

Dates of Survey while building { During progress of work in shops - - 1937 Aug 9. 19. Sep 13 1938 Mar 3. 7. 16 19 May 12
During erection on board vessel - - -
Total No. of visits 8

Dates of Examination of principal parts—Cylinders 19.5.38 Covers 19.5.38 Pistons 19.5.38 Piston rods ✓
Connecting rods 27.9.37 Crank and Flywheel shaft 3.3.38 Intermediate shaft ✓

Crank and Flywheel shafts, Material Steel ✓ Identification Mark LLOYD'S 3370-3-3-38 AS. ✓

Intermediate shafts, Material ✓ Identification Marks Housing LLOYD'S-3369-3-3-38 AS. ✓

Is this machinery duplicate of a previous case *Yes* If so, state name of vessel *Guns Rpt 20533*

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 engine is being despatched to Schiedam to the order of Messrs. Nederlandsche Loh Maats, Holland.

Request form attached Guns Rpt. 20533
9/37/10-1462

The amount of Fee ... £ ...
Travelling Expenses (if any) £ ...
When applied for, 19...
When received, 19...

[Signature]

Surveyor to Lloyd's Register of Shipping.

Committee's Minute

FRI 6 JAN 1939

Assigned *See Rpt. F.E. machy rpt 27660*



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