

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 Received at London Office JUN 8 1938
 No. in Survey held at Lincoln Date, First Survey 9. 8. 37 Last Survey 12. 5. 1938
 Reg. Book. Mr. Crista Number of Visits _____

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

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 19 cwt. Means of ignition Compression Kind of fuel used Heavy oil ✓

Crank Shaft, dia. of journals 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" shrunk Thickness around eyehole _____

Flywheel Shaft, diameter Approved Intermediate Shafts, diameter _____ as fitted _____ 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 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 _____ ✓
 (If not, state date of approval)

SPARE GEAR
As per Rule requirements. ✓

Ruston & Hornsby, Limited

The foregoing is a correct description,

R. Lloyd

Manufacturer.

Oil & Gas Engines Dept.



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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 3370-3-3-38AS ✓

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

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 Waark, Holland.

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

The amount of Fee ... £ *included*
 Travelling Expenses (if any) £ *Account*

[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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