

RECEIVED



Rpt. 4c. 15 SEP 1949
REPORT ON OIL ENGINE ELECTRIC GENERATOR SETS. No. 586
 IN D.O. Received at London Office 9 SEP 1949

Date of writing Report 19 When handed in at Local Office 19 Port of NOTTINGHAM.

No. in Survey held at Lincoln Date, First Survey 19 Last Survey 19
 Reg. Book. Number of Visits 19

on the Single Twin Triple Quadruple Screw vessel M.V. 'CHRISTINE' Tons { Gross 109 Net 109

Built at Goole By whom built Goole S.B. & R. Co. Ltd., Yard No. 474 When built 1949

Owners Port belonging to 3145/12/470223/4.

Oil Engines made at Lincoln By whom made Ruston & Hornsby Ltd., Contract No. 1949

Generators made at Norwich. By whom made Laurence Scott & Electromotors Ltd., Contract No. 1949

No. of Sets 2 Engine Brake Horse Power 120 ✓ M.N. as per Rule 30 Total Capacity of Generators 150 Kilowatts.

Is Set intended for essential services per engine. per engine.

OIL ENGINES, &c.—Type of Engines 6VPHZ. Engines Nos. 268609, 268610. 2 or 4 stroke cycle 4 ✓ Single or double acting SA

Maximum pressure in cylinders 1000 lbs. Diameter of cylinders 5 3/8" ✓ Length of stroke 8" ✓ No. of cylinders 6 ✓ No. of cranks 6

Mean indicated pressure 10.9 lbs. Firing order in cylinders 1.2.4.6.5.3 Span of bearings, adjacent to the Crank, measured from inner edge to inner edge 6.25/32"

Is there a bearing between each crank Yes ✓ Moment of inertia of flywheel (16 m² or Kg.-cm.²) 1870 lb.-ft. 2 ✓ Revolutions per minute 1000 ✓

Flywheel dia. 2'2" ✓ Weight 630 lbs. ✓ Means of ignition Compression Kind of fuel used Diesel Oil

Crank Shaft, dia. of journals 4.3/16" ✓ as per Rule Approved Crank pin dia. 3 1/4" ✓ Crank Webs Mid. length breadth 5 3/8" ✓ Mid. length thickness 1 3/4" ✓ Thickness parallel to axis — Thickness round eyehole —

Flywheel Shaft, diameter as per Rule Intermediate Shafts, diameter as per Rule General armature, moment of inertia (16 m² or Kg.-cm.²)

Are means provided to prevent racing of the engine when declutched Yes ✓ Means of lubrication Forced Kind of damper if fitted —

Are the cylinders fitted with safety valves No ✓ Are the exhaust pipes and silencers water cooled or lagged with non-conducting material —

Cooling Water Pumps, No. — Is the sea suction provided with an efficient strainer which can be cleared within the vessel —

Lubricating Oil Pumps, No. and size one, 557 gals./hour. Engine driven.

Air Compressors, No. — No. of stages — Diameters — Stroke — Driven by —

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 Encl. vert. D.P. CW. CR. Nos. 209980, 209981.

Pressure of supply 220 volts. Full Load Current 340 Amperes. Direct or Alternating Current D.C. ✓

If alternating current system, state the periodicity — Has the Automatic Governor been tested and found as per Rule when full 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 Yes ✓

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 —

Details of driven machinery other than generator —

PLANS.—Are approved plans forwarded herewith for Shafting 13.4.43. Receivers — Separate Tanks —

Have Torsional Vibration characteristics if applicable been approved Yes. Duplicate of Goole No. 452. Armature shaft Drawing No. —

SHAFTING GEAR ✓ Rule requirements. Approved 17/1/47 for 1000 yds
see "LINGEST ROOM"

The foregoing is a correct description,

Ruston & Hornsby Limited.

Manufacturer.

Beaves
 Engineering Divn.



© 2021

Lloyd's Register
 Foundation

007432 - 007438 - 0064

Dates of Survey while building { During progress of work in shops - -) 2.3.49, 7.3.49, 6.7.49.
{ During erection on board vessel - -)
Total No. of visits 3

Dates of Examination of principal parts—Cylinders 2.3.49. 7.3.49. Covers 2.3.49. 7.3.49. Pistons 2.3.49. 7.3.49. Piston rods -

Connecting rods 2.3.49. 7.3.49. Crank and Flywheel shafts 2.3.49. 7.3.49. Intermediate shafts

Crank shaft { Material Tensile strength LL.3267. RE.266. TDS.
Elongation Identification Marks LL.3276. RE.278. TDS.

Flywheel shaft, Material Identification Marks

Identification marks on Air Receivers

Is this machinery duplicate of a previous case Yes If so, state name of vessel Goole S.B. & R. Yd.No.452.

GENERAL REMARKS (State quality of workmanship, opinions as to class, &c.)

This machinery has been built under Special Survey in accordance with the Approved plans and the Rules of the Society, materials and workmanship being good.

On completion the generating sets were tried in the shops under working conditions and governing tested with satisfactory results.

The sets have been despatched to Goole for installation on board the vessel.

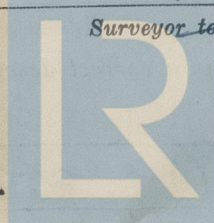
The amount of Fee ... £ 6: 0 : 0 { When applied for 7/9/ 1949.
(per engine)
Travelling Expenses (if any) £ : : { When received 19

FRI, 13 OCT 1950

Committee's Minute

Assigned See minute on A. 76-

Surveyor to Lloyd's Register of Shipping.



Lloyd's Register Foundation