

RECEIVED

11 JAN 1950
Rpt. 4c.
IN D.O.

REPORT ON OIL ENGINE ELECTRIC GENERATOR SETS.

No. 693

Received at London Office. 28 DEC 1949
NOTTINGHAM.

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

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

on the Twin Triple Quadruple Screw vessel M.V. CHRISTINE Tons Gross... Net...

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

Owners... Port belonging to 17/470611.

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

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

No. of Sets 1 Engine Brake Horse Power 30 M.N. as per Rule 7.5 Total Capacity of Generators 12 Kilowatts.

Is Set intended for essential services...

OIL ENGINES, &c.—Type of Engines 3VRHZ. Eng. No. 275910 2 or 4 stroke cycle 4 Single or double acting SA

Maximum pressure in cylinders 800 lbs. Diameter of cylinders 4 1/2" Length of stroke 5 1/2" No. of cylinders 3 No. of cranks 3

Mean indicated pressure 112.5 Firing order in cylinders 1-3-2 Span of bearings, adjacent to the Crank, measured from inner edge to inner edge 6.15/16"

Is there a bearing between each crank Yes Moment of inertia of flywheel 1164 lbs.ft² Revolutions per minute 1000

Flywheel dia. 26" Weight 420 lbs. Means of ignition Compression Kind of fuel used Diesel Oil.

Crank Shaft, dia. of journals 3" Crank pin dia. 3" Crank Webs Mid. length breadth 3 1/2" Thickness parallel to axis -

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. one, engine driven. Is the sea suction provided with an efficient strainer which can be cleared within the vessel...

Lubricating Oil Pumps, No. and size one 150 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 Drip proof, CW, CR. Machine No. 155011.

Pressure of supply 220 volts. Full Load Current 54.5 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

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... Yes

If the generators are 100 kw. or over have they been built and tested under survey... Applied for

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... Not applicable. Armature shaft Drawing No...

SPARE GEAR To rule requirements. ✓

The foregoing is a correct description,

Ruston & Hornsby Limited. Manufacturer.

Mewes Engineering Divn.



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Lloyd's Register Foundation

007432-007438-0065

13.6.49., 9.11.49.

Dates of Survey while building During progress of work in shops - -)
During erection on board vessel - -)
Total No. of visits 2

Dates of Examination of principal parts—Cylinders 13.6.49. Covers as cyls. Pistons as cyls. Piston rods -

Connecting rods as cyls. Crank and Flywheel shafts as cyls. Intermediate shafts -

Crank shaft Material Tensile strength 40/45 Tons/sq.inch.
Elongation Identification Marks LL.K.2088A. 5023 BW.

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 Standard.

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

This engine 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 set was tested under working conditions in the shops and the governing tested with satisfactory results.

The set has been forwarded to Goole for installation on board the vessel.

2m. 8. 17. - T. (MADE AND PRINTED IN ENGLAND)
(The Surveyors are requested not to write on or below the space for Committee's Minute.)

The amount of Fee ... £ 4 : 0 : 0 { When applied for 21. 12. 1949.
Travelling Expenses (if any) £ : : { When received 19

Committee's Minute FRI. 13 OCT 1950
Assigned See minute on file

