

Rpt. 4c
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REPORT ON OIL ENGINE ELECTRIC GENERATOR SETS.

No. 482

3 MAY 1949

11 MAY 1949

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

No. 91776 Survey held at Lincoln Date, First Survey Last Survey 19
Reg. Book. Supplement on the Single Triple Quadruple Screw vessel M.V. LATIVUS Number of Visits

Built at Newcastle By whom built Hawthorn Leslie. Eng. No. 699. Tons Gross 6475.65 Net 3608.86

Owners THE ANGLO SAXON PETROLEUM CO. LTD. Port belonging to LONDON

Oil Engines made at Lincoln By whom made Ruston & Hornsby Ltd. 4975/12/470331. When made 1949.

Generators made at Sunderland By whom made Sunderland Forge & Eng. Co. Ltd. Contract No. When made

No. of Sets 1 Engine Brake Horse Power 54 M.N. as per Rule 13.5 Total Capacity of Generators 30 Kilowatts.

Is Set intended for essential services

OIL ENGINES, &c. Type of Engines 4VPHZ. Engine No. 269988. 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 4 No. of cranks 4

Mean indicated pressure 109 lbs. Firing order in cylinders 1-3-4-2 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 Weight of flywheel 2240 lbs. Revolutions per minute 675

Flywheel dia. 2'8" Weight 510 lbs. Means of ignition Compression Kind of fuel used Diesel Oil

Crank Shaft, dia. of journals as per Rule 4.3/16" Crank pin dia. 3 1/4" Mid. length breadth 5 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 Yes 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, 376 gals. per 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 Canopy, cont. rating No. 40762.

Pressure of supply 110 volts. Full Load Current 273 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 Through clutch. Air Compressor. Reavell No. 108506. circulating pump.

PLANS: Are approved plans forwarded herewith for Shafting Standard Approved. Receivers Hamworthy No. 66889.

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.

Engineering Divn.



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Lloyd's Register
Foundation

003581-003590-0094

Dates of Survey while building { During progress of work in shops - - 25.10.48. 2.3.49. During erection on board vessel - - - - - Total No. of visits 2

Dates of Examination of principal parts—Cylinders 25.10.48. Covers 25.10.48. Pistons 25.10.48. Piston rods - - - - - Connecting rods 25.10.48. Crank and Flywheel shafts 25.10.48. Intermediate shafts - - - - -

Crank shaft { Material S.M. Steel. Tensile strength - - - - - Elongation - - - - - Identification Marks LL. 1136. TDS.RD.6303.

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 Type.

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

This engine has been built under special Survey, in accordance with Approved Plans and Regulations of Society, material and workmanship being good.

On completion the set was tried in the Shops under working conditions and found satisfactory.

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

SURVEY OF MACHINERY.

NEWCASTLE-ON-TYNE.

FIRST SURVEY 31/10/47

LAST SURVEY 28/6/49

No. OF VISITS 103

Installed in M/Y "LATIRUS" ENG. No 4060. A. W. L.

SURVEYOR TO LLOYD'S REGISTER.
NEWCASTLE-ON-TYNE.

The amount of Fee ... £ 4 : 0 : 0

When applied for 10/5/ 19 49

Travelling Expenses (if any) £ :

When received 19

Committee's Minute

12 AUG 1949

Assigned

See F.F. mch. opt.

A. W. L.

Surveyor to Lloyd's Register of Shipping.



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