

7 AUG 1935

BALLAST PUMP & AUX AIR COMPRESSOR

No. 101660

REPORT ON OIL ENGINE ELECTRIC GENERATOR SETS.

2 JUL 1935

-2 JUL 1935

Port of London

Survey Report 26 June 1935 When handed in at Local Office

Survey held at Newbury

Date, First Survey 12 April 1935

Last Survey 21 June 1935

Number of Visits 4

on the Greenock Y.T. Edwards & Son Ltd Newbury

By whom built Geo. Brown & Co. Ltd Yard No. 192 When built 1935

Port belonging to

By whom made Newbury Diesel Co. Ltd Contract No. 2444/B When made 1935

By whom made Lawnmower Scott & Co. Ltd Contract No. When made 1935

Engines made at Newbury Motors made at Newbury Sets 1 Engine Brake Horse Power 27 Nom. Horse Power as per Rule 7.7 Total Capacity of Generators 14 Kilowatts.

ENGINES, &c. Type of Engines Solid injection 2 or 4 stroke cycle 4 Single or double acting Single

Working pressure in cylinders 700 lb Diameter of cylinders 10.57 Length of stroke 15.27 No. of cylinders 3 No. of cranks 3

bearings, adjacent to the Crank, measured from inner edge to inner edge 12.87 Is there a bearing between each crank Yes

Revolutions per minute 1000 Flywheel dia. 63.47 Weight 2.5 cwt Means of ignition Compression Kind of fuel used Heavy oil

Shaft, dia. of journals 60.57 as per Rule 60.57 Crank pin dia. 62.7 Crank Webs 8.47 Mid. length breadth 8.47 Thickness parallel to axis shrunk

as fitted 62.7 as fitted 62.7 as per Rule 62.7 Mid. length thickness 32.7 Thickness around eyehole shrunk

Intermediate Shaft, diameter 1.12 as fitted 1.12 Thickness of cylinder liners 10.127 to 9.127

Governor or other arrangement fitted to prevent racing of the engine when declutched Yes Means of lubrication Oil

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

Water Pumps, No. 1 Is the sea suction provided with an efficient strainer which can be cleared within the vessel

Lubricating Oil Pumps, No. and size 1 rotary 0.7 gal. per minute

Compressors, No. 1 No. of stages 2 Diameters 1107 457 Stroke 807 Driven by clutch on end of shaft

Engining Air Pumps, No. 1 Diameter 1107 Stroke 807 Driven by clutch on end of shaft

RECEIVERS: Is each receiver, which can be isolated, fitted with a safety valve as per Rule Main Engine Receiver

Internal surfaces of the receivers be examined Yes What means are provided for cleaning their inner surfaces

Pressure Air Receivers, No. 1 Cubic capacity of each 110 Internal diameter 1107 thickness 1107

Working pressure by Rules 1107 Range of tensile strength 1107 Working pressure by Rules 1107

Electric Generators, No. 1 Total cubic capacity 110 Internal diameter 1107 thickness 1107

Working pressure by Rules 1107 Range of tensile strength 1107 Working pressure by Rules 1107

ELECTRIC GENERATORS: Type Direct Voltage of supply 110 volts. Load 127 Amperes. Direct or Alternating Current Direct

Alternating current system, state frequency of periods per second 50

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 Yes are they compound wound

Are all terminals accessible, clearly marked, and furnished with sockets Yes

Are the lubricating arrangements of the generators as per Rule Yes

Are approved plans forwarded herewith for Shafting Yes Receivers Yes Separate Tanks Yes

GEAR See attached list

For & on behalf of The Newbury Diesel Co. Ltd.

The foregoing is a correct description.

SECRETARY

Manufacturer.

of Shipping

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Lloyd's Register

Foundation

W144-0015

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

1935. April 12. May 2. 29. June 21. = 4 visits

Dates of Examination of principal parts - Cylinder 29.5.35 Covers 29.5.35 Pistons 29.5.35 Piston rods

Connecting rods 29.5.35 Crank and Flywheel shaft 12.4.35 Intermediate shaft

Crank and Flywheel shafts, Material J. D. Steel Identification Mark

LLOYDS 5569
MAB. 29.3.35

Intermediate shafts, Material Identification Marks

Is this machinery duplicate of a previous case No If so, state name of vessel

General Remarks (State quality of workmanship, opinions as to class, etc.) Workmanship good.

This auxiliary engine has been specially surveyed during construction in accordance with the approved plans and the Rules. The materials used have been made at works approved by the Committee and tested by the Surveyor to this Society. Shop trials were witnessed when all worked satisfactorily.

It is direct coupled to a Lawrence Scott Electric Generator No. 66000 - 14 which is fitted with an intermediate shaft to drive ballast pump through clutch and gearing of the auxiliary on compound through a friction clutch.

It has now been dispatched to Greenock for fitting on board.

Attached hereto

Copy of Fitting Certificate for crank shaft.
List of spare gear.

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

Committee's Minute GLASGOW 6 - AUG 1935

Assigned See Gen. Rpt. No. 19991

Geo. Pang
Surveyor to Lloyd's Register of Shipping.

TUE. 24 DEC 1935

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