

REPORT ON OIL ENGINE ELECTRIC GENERATOR SETS.

PUMPING AND COMPRESSOR

No. 102330

Date of writing Report 21 OCT 1935

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Received at London Office

When handed in at Local Office 19 Port of London

No. in Survey held at Newbury Date, First Survey 12.4.35 Last Survey 27 Oct. 1935

Reg. Book. on the Single Twin Triple Quadruple Screw vessel Se. S. motor vessel "ADAPTIV."

Number of Visits 5

Tons { Gross
Net

Built at Yarmouth By whom built Fellows T. & L. Yard No. 337 When built 1935

Owners H. T. Everard & Son Ltd. Port belonging to

Oil Engines made at Newbury By whom made Newbury Diesel Co. Ltd. ENGINE Contract No. 2544/A. When made 1935

Generators made at Norwich By whom made Lawrence Scott & Electromotion Ltd. GENERATOR Contract No. 68380 When made 1935

No. of Sets 1 Engine Brake Horse Power 27 Nom. Horse Power as per Rule 7.7. Total Capacity of Generators 14 Kilowatts.

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

Maximum pressure in cylinders 700 lb. Diameter of cylinders 105 mm Length of stroke 152 mm No. of cylinders 3 No. of cranks 3

Span of bearings, adjacent to the Crank, measured from inner edge to inner edge 128 mm Is there a bearing between each crank Yes

Revolutions per minute 1000 Flywheel dia. 634 mm Weight 2.5 cwt Means of ignition Compression Kind of fuel used Heavy oil

Crank Shaft, dia. of journals as per Rule 60.5 mm as fitted 62 mm Crank pin dia. 62 mm Crank Webs Mid. length breadth 84 mm Mid. length thickness 32 mm Thickness parallel to axis shrunk Thickness around eyehole

Flywheel Shaft, diameter as per Rule as fitted 1 1/2" Intermediate Shafts, diameter as per Rule as fitted 1 1/2" Thickness of cylinder liners 10 mm

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 No. Are the exhaust pipes and silencers water cooled or lagged with non-conducting material

Cooling Water Pumps, No. 1 S.A. 45 mm dia. x 15 mm stroke Is the sea suction provided with an efficient strainer which can be cleared within the vessel

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

Air Compressors, No. 1 No. of stages 2 Diameters 110 mm - 45 mm Stroke 80 mm Driven by clutch on tail shaft

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. 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 Enclosed Rating 1/2 hour

Pressure of supply 110 volts Load 127 Amperes Direct or Alternating Current Direct

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 Yes

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 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

PLANS. Are approved plans forwarded herewith for Shafting Bank 5-1-35 Receivers Separate Tanks

SPARE GEAR See attached list

For & on behalf of

THE NEWBURY DIESEL Co. LTD.

The foregoing is a correct description,

SECRETARY.

Manufacturer.



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Lloyd's Register
Foundation

W324-0098

Dates of Survey while building { During progress of work in shops - - } 1935 { Apr 12 Aug 21 Sep 16 Oct 27 }
 { During erection on board vessel - - - }
 Total No. of visits 5

Dates of Examination of principal parts—Cylinders 16.9.35 Covers 16.9.35 Pistons 16.9.35 Piston rods —
 Connecting rods 16.9.35 Crank and Flywheel shaft 16.9.35 Intermediate shaft ✓

Crank and Flywheel shafts, Material 4.2. Steel Identification Mark Lloyds 5820 MAB 9.8.35
 Intermediate shafts, Material — Identification Marks ✓

Is this machinery duplicate of a previous case Yes If so, state name of vessel Eng N° 2444/B. Port Repat 101660 M/V.

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

This auxiliary engine has been specially surveyed during construction and is in accordance with the approved plan and the Rules. The materials used have been made at works approved by the Committee and tested by the Surveyor to this Society. It is fitted to a trap plate, common to an electric generator, a ballast pump and the auxiliary air compressor, being direct coupled to the generator & clutch coupled to pump & compressor. Shop trials were witnessed & found satisfactory.

The engine has now been installed, tested under full working condition & found satisfactory

Attached hereto: Engng Certificate 1 m N°
 List of spare gear

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

Geo. A. Lang & Thos. Hammett
 Surveyors to Lloyd's Register of Shipping.

Committee's Minute TUE. 31 DEC 1935
 Assigned See Lon. J.E. 102330