

REPORT ON OIL ENGINE ELECTRIC GENERATOR SETS.

No. 93099

24 SEP 1928

Date of writing Report

When handed in at Local Office

10

Port of

London

No. in Survey held at
Reg. Book.

Bedford

Date, First Survey

Last Survey

19

Number of Visits

on the ^{Single} ~~Twin~~ ~~Triple~~ ~~Quadruple~~ Screw vessel

STAFFORDSHIRE

Tons { Gross 1065 5
Net

Built at Glasgow
Owners Bibby & Co. Ltd.

By whom built Fairfield Ship & Eng. Co. Yard No.

When built 1928

Port belonging to Liverpool

Oil Engines made at Bedford

By whom made Messrs. H. H. Allen Sons & Co. Contract No. 9850/1/2 When made 1928.

Generators made at Bedford

By whom made Messrs. H. H. Allen Sons & Co. Contract No. 9850/1/3 When made 1928.

No. of Sets 3 Engine Brake Horse Power 900 Nom. Horse Power as per Rule 257 Total Capacity of Generators 630 Kilowatts.

OIL ENGINES, &c. Type of Engines Burmeister & Wain, Diesel. 2 or 4 stroke cycle 4 Single or double acting S.A.

Maximum pressure in cylinders 570 lbs/sq. in. Diameter of cylinders 410 in. Length of stroke 600 in. No. of cylinders 4 No. of cranks 4

Span of bearings, adjacent to the Crank, measured from inner edge to inner edge 476 in. Is there a bearing between each crank Yes

Revolutions per minute 185 Flywheel dia. 2180 in. Weight 7 tons. Means of ignition Compression Kind of fuel used Diesel.

Crank Shaft, dia. of journals as per Rule 226 in. as fitted 235 in. Crank pin dia. 240 in. Mid. length breadth 380 in. Mid. length thickness 127 in. Kind of fuel used Diesel. Thickness parallel to axis SOLID FORGED.

Flywheel Shaft, dia. as per Rule CRANK SHAFT Intermediate Shafts, diameter as per Rule as fitted Thickness of cylinder liners 34 1/2 in.

Is a governor or other arrangement fitted to prevent racing of the engine when declutched Yes Means of lubrication Mechanical forced.

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 Driven by Engine.

Air Compressors, No. One to each Eng. No. of stages Three Diameters 62x285x325 in. Stroke 250 in. Driven by Crank 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 Suitable plug.

Can the internal surfaces of the receivers be examined Yes What means are provided for cleaning their inner surfaces Indo portable

Is there a drain arrangement fitted at the lowest part of each receiver Yes

High Pressure Air Receivers, No. One per Engine Cubic capacity of each 90 litres Internal diameter 9 3/4 in. thickness 3/8 in.

Seamless, lap welded or riveted longitudinal joint Seamless Material Steel Range of tensile strength 29/33 1/2 in. Working pressure by Rules

Starting Air Receivers, No. None 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 Open with Canopy.

Pressure of supply 220 volts. Load 950 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 Yes

Generators, do they comply with the requirements regarding rating yes are they compound wound Yes with 2 poles

Are they over compounded 5 per cent. Level compounding if not compound wound state distance between each generator

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

Are approved plans forwarded herewith for Shafting No Receivers Separate Tanks

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As per attached List.

The foregoing is a correct description,
For W. H. ALLEN, SONS & Co., Ltd.,
H. Geo. Kimber.

Manufacturer.



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Lloyd's Register
Foundation

003444-003444-0015

Dates of Survey while building { During progress of work in shops - - } May 9. June 5. Aug. 3. 15. 22. 25. 31. Sep 8. 17. 22 1928
{ During erection on board vessel - - - }
{ Total No. of visits }

Dates of Examination of principal parts—Cylinders Aug. 3. 15. 25 Sep. 17. Covers Aug. 3. 15. 22. 25 Sep. 17. Pistons Aug. 3. Sep. 22 Piston rods ✓

Connecting rods Aug. 9. June 5. Aug. 3. 15. Crank and Flywheel shaft Aug. 15. 25. Intermediate shaft ✓

Crank and Flywheel shaft, Material Steel Identification Mark SEE BELOW. Identification Marks

Is this machinery duplicate of a previous case Yes If so, state name of vessel "CHESHIRE"

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

Crank Shafts Identification Marks:—

Eng. A.

TEST N° 981
LLOYDS
8047
31-3-28
J.P.
LR
15-8-28

Eng. B.

TEST N° 24 T.B.
LLOYDS
8081
15-5-28
J.P.
25-8-28
LR

Eng. C.

TEST N° 25
LLOYDS
8085
31-5-28
J.P.
25-8-28
LR

This Machinery has been constructed under Special Survey in accordance with approved plans and Rule Requirements. The Workmanship & Material, so far as can be seen, are good and satisfactory bench trials have been carried out under survey. The three sets which are numbered 98501/A/B/C have been despatched to Glasgow where they are to be installed and, in my opinion, will be eligible for inclusion in the Classification and record of T.M.C. of the vessel.

The amount of Fee ... £ 25-14-0

Travelling Expenses (if any) £ 3-10-4

When applied for,
24 SEP 1928
19

When received,

19 16/10/28

Richard A. Palmer.
Surveyor to Lloyd's Register of Shipping.

Committee's Minute

Assigned



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