

STEAM

Rpt. 4c.

REPORT ON ENGINE ELECTRIC GENERATOR SETS

No. 9982

SEP-21-1938

Received at London Office

Date of writing Report 26-6-38 When handed in at Local Office 30-6-38 Port of MANCHESTER

No. in Survey held at BURY Date, First Survey 15. MAY. 1937 Last Survey 22-6-1938
Reg. Book. Number of Visits 6

on the Single Screw vessel MANCHESTER PROGRESS Tons { Gross 5620
Triple Net 3343
Quadruple

Built at MANCHESTER By whom built MESSRS BLYTHSNWOOD LTD. Yard No. 51 When built 1938

Owners MANCHESTER LINERS LTD. Port belonging to MANCHESTER

~~STEAM~~ Engines made at BURY By whom made ASHWORTH & PARKER LD. Contract No. 1264 When made 1938

Generators made at SUNDERLAND By whom made SUNDERLAND FORGE & ENG. CO. Contract No. F.5100A/B When made 1938

No. of Sets 1/NO. Engine Brake Horse Power — Nom. Horse Power as per Rule 4 1/2 Total Capacity of Generators 60 Kilowatts.

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

Maximum pressure in cylinders N.P. 225 LBS. Diameter of cylinders 7" & 10" Length of stroke 5" No. of cylinders 2 No. of cranks 2
EACH ENGINE

Span of bearings, adjacent to the Crank, measured from inner edge to inner edge 6" Is there a bearing between each crank YES

Revolutions per minute 500 Flywheel dia. — Weight — Means of ignition — Kind of fuel used —

Crank Shaft, dia. of journals as per Rule APPROVED Crank pin dia. 3" Crank Webs Mid. length breadth 4" Thickness parallel to axis SOLID
as fitted 3" Mid. length thickness 1 7/8" shrunk Thickness around eyehole —

Flywheel Shaft, diameter as per Rule — Intermediate Shafts, diameter as per Rule — Thickness of cylinder liners —
as fitted —

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 — 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 —

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 —

Pressure of supply 110 volts. Full Load Current 272 Amperes. Direct or Alternating Current DIRECT

If alternating current system, state the periodicity — Has the Automatic Governor been tested and found efficient when the whole 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 —

Are all terminals accessible, clearly marked, and furnished with sockets — Are the lubricating arrangements of the generators as per Rule YES

Are they so spaced or shielded that they cannot be accidentally earthed, short circuited, or touched —

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 —

PLANS. Are approved plans forwarded herewith for Shafting YES Receivers — Separate Tanks —

SPARE GEAR —

B.S.B.
2-7-38

The foregoing is a correct description,
FOR AND ON BEHALF OF
ASHWORTH & PARKER LTD.,
H.O. Charlton

Manufacturer.

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Foundation
005029-005037-0262

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

1937 MAY 15, 27. DEC 31. 1938 FEB 9. MAY 16. JUNE 22

6

Dates of Examination of principal parts—Cylinders 16-5-38 Covers 16-5-38 Pistons 16-5-38 Piston rods 16-5-38

Connecting rods 16-5-38 Crank and Flywheel shafts 16-5-38 Intermediate shafts —

Crank and Flywheel shafts, Material STEEL. Identification Marks LLOYDS 615. J.W.L. 16.5.38

Intermediate shafts, Material — Identification Marks —

Identification marks on Air Receivers —

Is this machinery duplicate of a previous case If so, state name of vessel MCH RPT 8413/3

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

THESE ENGINES HAVE BEEN CONSTRUCTED UNDER SPECIAL SURVEY OF TESTED MATERIALS AND ARE IN ACCORDANCE WITH THE SECRETARY'S LETTERS, APPROVED PLANS AND RULE REQUIREMENTS. THE MATERIALS AND WORKMANSHIP ARE OF A GOOD QUALITY AND THE SETS WHEN TESTED IN SHOP UNDER FULL LOAD CONDITIONS SHOWN SATISFACTORY RESULTS.

IN MY OPINION THESE ENGINES ARE SUITABLE TO BE PLACED ON BOARD A VESSEL, CLASSED WITH THIS SOCIETY, FOR THE PURPOSE INTENDED. CERTIFICATES FOR GENERATORS ATTACHED.

The amount of Fee ... £ 7 7:0 When applied for, 30-6-1938 M

Travelling Expenses (if any) £ 13:0 When received, 17-8-1938
 (per L.L.W.)

J. Meicente
 Surveyor to Lloyd's Register of Shipping.

Committee's Minute **GLASGOW 20 SEP 1938**

Assigned SEE ACCOMPANYING MACHINERY REPORT.



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