

# STEAM REPORT ON ~~THE~~ ENGINE ELECTRIC GENERATOR SETS.

No. 10,336.

t. 4c.

Date of writing Report 10/1/41 When handed in at Local Office

Port of MANCHESTER

Survey held at Bury

Date, First Survey 1/10/40

Last Survey 26/12/40 19

Number of Visits 6

on the Twin Triple Quadruple Screw vessel H.M.T. JULIET

Tons Gross Net

Built at Hull By whom built Yard No. When built

Engines made at Bury By whom made Ashworth Parker Ltd. ENGINE Contract No. 1503 When made 1940

Generators made at Norwich By whom made Lawrence Scott & Electromotors Ltd. GENERATOR Contract No. 82620 When made 1940

No. of Sets 1 Engine Brake Horse Power 26 Nom. Horse Power as per Rule Total Capacity of Generators 15 Kilowatts.

TYPE OF ENGINES, &c.—Type of Engines Steam Reciprocating 2 or 4 stroke cycle Single or double acting Double

Working pressure in cylinders 200 lb/sq. in. Diameter of cylinders 7" Length of stroke 5" No. of cylinders 1 No. of cranks 1

Span of bearings, adjacent to the Crank, measured from inner edge to inner edge 11 3/4" Is there a bearing between each crank Yes

Revolutions per minute 500 Flywheel dia. 2'-6" Weight 420 lbs. Means of ignition Kind of fuel used

Crank Shaft, dia. of journals 3" Crank pin dia. 3" Crank Webs Mid. length breadth 3 3/4" Thickness parallel to axis

Flywheel Shaft, diameter 3" Intermediate Shafts, diameter as per Rule Thickness of cylinder liners

Is a governor or other arrangement fitted to prevent racing of the engine when detached Yes Means of lubrication 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 One - gear wheel type - 10 gallons per minute

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 Compound Wound

Pressure of supply 115 volts. Full Load Current 130 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 To Admiralty requirements

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

PLANS. Are approved plans forwarded herewith for Shafting 27/3/40 Receivers Separate Tanks

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The foregoing is a correct description.

J. H. Charlton

Manufacturer.



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Lloyd's Register

004621-004624-0413



Dates of Survey while building { During progress of work in shops - - } 1940. October 1 & 9, November. 21 & 22. December 3 & 26.  
 { During erection on board vessel - - - }  
 Total No. of visits

Dates of Examination of principal parts—Cylinders 21/11/40 Covers 21/11/40 Pistons 21/11/40 Piston rods 21/11/40  
 Connecting rods 3/12/40 Crank and Flywheel shafts 3/12/40 Intermediate shafts ✓  
 Crank and Flywheel shafts, Material S. M. Ingot Steel Identification Marks LLOYDS 175. 3/12/40. A.C.  
 Intermediate shafts, Material ✓ Identification Marks ✓  
 Identification marks on Air Receivers ✓

Is this machinery duplicate of a previous case yes If so, state name of vessel C. D. Holmes & Co. J. 2609, J. 2611, J. 2615.

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

This engine has been constructed under Special Survey of tested materials & in accordance with Secretary's letters, approved plans & Rule Requirements.

The materials & workmanship are good & the engine, when tested in the shop under full load conditions, gave satisfactory results.

In my opinion, this engine is suitable to be placed on board a vessel classed with this Society, for the purpose intended.

The amount of Fee ... £ 4 : 4 : When applied for, 18/1/41 E.K.  
 Travelling Expenses (if any) £ - : 6/- : When received, 19

E. Knowles.  
 Surveyor to Lloyd's Register of Shipping.

Committee's Minute

TUE. 29 APR 1941

Assigned

See Hull J.E. 51173



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