

# REPORT ON OIL ENGINE ELECTRIC GENERATOR SETS.

No. 11,753.

Received at London Office

23 FEB 1944

t. 4c.

12. 2. 1944 when handed in at Local Office 18. 2. 1944 Port of

MANCHESTER.

Survey held at

ALTRINCHAM.

Date, First Survey

7. 10. 43

Last Survey

2. 2. 1944.

Number of Visits

Six.

on the Single Twin Triple Quadruple Screw vessel

**"SESAME" J2537.**

Tons <sup>Gross</sup> <sub>Net</sub>

built at HULL. (Emp)

By whom built C. D. Holmes & Co.

J.2533/5/  
Yard No. 7. When built

Port belonging to

Engine 3842

~~3843~~ Nos. 3843 When made

Engines made at ALTRINCHAM.

By whom made Russell Newbery & Co.

Contract No. When made

Generators made at

By whom made

Contract No. When made

No. of Sets 2

Engine Brake Horse Power

14

Nom. Horse Power as per Rule 4

Total Capacity of Generators - Kilowatts.

TYPE ENGINES, &c.

Type of Engines

Vertical Solid Injection Heavy Oil.

2 or 4 stroke cycle 4 Single or double acting Single.

Maximum pressure in cylinders

860 lbs/sq"

Diameter of cylinders

4 1/8"

Length of stroke

6"

No. of cylinders

2

No. of cranks

2

Span of bearings, adjacent to the Crank, measured from inner edge to inner edge

5 1/8"

Is there a bearing between each crank

Yes

Revolutions per minute

800

Flywheel dia.

22"

Weight 220 lbs.

Means of ignition Compression

Kind of fuel used Diesel Oil.

Crank Shaft, dia. of journals

as per Rule Approved.

as fitted 2 1/8"

Crank pin dia.

2 3/8"

Crank Webs

Mid. length breadth 3 1/2"

Thickness parallel to axis -

Mid. length thickness 1.5/16"

Thickness around eye-hole -

Flywheel Shaft, diameter

as per Rule -

as fitted -

Intermediate Shafts, diameter

as per Rule -

as fitted -

Thickness of cylinder liners

11/32"

Is a governor or other arrangement fitted to prevent racing of the engine when de-clutched

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. and size

One - Centrifugal

Is the sea suction provided with an efficient strainer which can be cleared within the vessel

-

Lubricating Oil Pumps, No. and size

One - Gear Type.

Air Compressors, No.

No. of stages

Diameters

Stroke

Driven by

Exhausting 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

volts.

Full Load Current

Amperes.

Direct or Alternating Current

If alternating current system, state the periodicity

Has the Automatic Governor been tested and found as per rule when full load is suddenly thrown on and off

Generators, are they compounded as per rule

is an adjustable regulating resistance fitted in series with each

Shunt field

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

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

Are the lubricating arrangements of the generators as per Rule

If the generators are under 100 kw. full load rating, have the Makers supplied certificates of test

and do the results comply with the requirements

If the generators are 100 kw. or over have they been built and tested under survey

PLANS. Are approved plans forwarded herewith for Shafting

2.10.42.

Receivers

Separate Tanks

STANDARD SPARES ONLY.

The foregoing is a correct description,  
per pro. **RUSSELL, NEWBERY & Co. Ltd.**

Manufacturer.

*J. Chubb*  
DIRECTOR



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Lloyd's Register

W345und082

23/2/44

Dates of Survey while building { During progress of work in shops - - ) 1943. 7.10.43. 1.11.43. 1944. 12.1.44. 13.1.44. 31.1.44. 2.2.44.  
 { During erection on board vessel - - - )  
 Total No. of visits

Dates of Examination of principal parts—Cylinders 12.1.44 Covers 13.1.44. Pistons 12.1.44. Piston rods -  
 Connecting rods 12.1.44. Crank and Flywheel shafts 13.1.44. Intermediate shafts -  
 Crank and Flywheel shafts, Material O. H. STEEL. Identification Marks Eng.3842. LLOYD'S 1841. 7.10.43.  
 Eng.3843. LLOYD'S 2156. 1.11.43.  
 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 Manchester Report No. 11,563.

**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 GOOD AND THE ENGINES, WHEN TESTED IN SHOP UNDER FULL LOAD CONDITIONS SHewed SATISFACTORY RESULTS. IN MY OPINION, THESE ENGINES ARE SUITABLE TO BE PLACED ON BOARD A VESSEL CLASSed WITH THIS SOCIETY, FOR THE PURPOSE INTENDED.**

7" pump fitted to Engine No 3842 and dispatched by Chas D. Holmes to HMS 'mediator' to S Shields. Hull.

5" pump fitted to Engine No 3843 and dispatched by Chas D. Holmes to R.M. Rescue tug 'Sesame' - Hull. Rpt No. 52310. H.S.S. 4.8.44. rec'd 14

Rpt. 13.  
 R  
 Date of writing Report.  
 No. in Survey Reg. Book.  
 on t  
 Built at  
 Owners  
 Electrical Install  
 Is vessel fitted  
 Have plans been s  
 Heating... Yes  
 has the governing  
 trip switch as p  
 if not compound  
 arranged to run  
 negati  
 test for machine  
 of the generator  
 near unprotecte  
 injury and dam  
 contact... Yes  
 are they in acc  
 and oil... Ye  
 material is use  
 semi-insulating  
 Is the constru  
 to pilot and e  
 side of switche  
 break  
 and for each  
 Are compar  
 ammeters  
 equaliser con  
 Switches,  
 per Rule  
 protection d  
 did they op  
 Cables, are  
 state maxim  
 square inch

Im. 4.39.—Transfer. (Continued AND PRINTED IN ENGLAND)  
 (The Surveys are requested not to write on or below the space for Committee Minute.)

The amount of Fee ...	£ 8 : 8 0	When applied for,	18.2.19.44.
Travelling Expenses (if any) £	1 : 0 0	When received,	.....19.....

H. Marles  
 Surveyor to Lloyd's Register of Shipping.

Committee's Minute

Assigned

