

# REPORT ON OIL ENGINE ELECTRIC GENERATOR SETS,

No. 10,109  
JUL 30 1940

Received at London Office

Date of writing Report 18.7.40 When handed in at Local Office 27.7.40 Port of Manchester

No. in Survey held at Altrincham, Manchester. Date, First Survey 11th July 1940 Last Survey 12th July 1940  
Reg. Book. Number of Visits 2

Single  
on the Twin } Screw vessel  
Triple }  
Quadruple }

Tons { Gross  
Net

Built at Hull By whom built C.D. Holmes Co. Ltd. Yard No. 1561/2/3/4 When built

Owners ADMIRALTY Port belonging to

Oil Engines made at Altrincham. By whom made Russell Newbery Co. Engine Contract No. 3537 When made 1940

Generators made at - By whom made - Contract No. - When made

No. of Sets One Engine Brake Horse Power 14 Nom. Horse Power as per Rule 4 Total Capacity of Generators 5 Kilowatts.

OIL ENGINES, &c. Type of Engines Vertical Solid Injection 2 or 4 stroke cycle 4 Single or double acting Single  
900 lbs

Maximum pressure in cylinders sq. in. Diameter of cylinders 4.125" Length of stroke 6" No. of cylinders Two No. of cranks Two

Span of bearings, adjacent to the Crank, measured from inner edge to inner edge 4.3/4" 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 Heavy Oil

Crank Shaft, dia. of journals as per Rule APPROVED as fitted 2.1/2" Crank pin dia. 2.3/8" Crank Webs Mid. length breadth 3.1/2" Thickness parallel to axis  
Mid. length thickness 1.5/16" shrunk Thickness around eyehole SOLID

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

Lubricating Oil Pumps, No. and size One.

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 volts. Full Load Current Amperes. Direct or Alternating Current

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

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 29.4.40. Receivers Separate Tanks  
(If not, state date of approval)

SPARE GEAR

The foregoing is a correct description,

per pro. RUSSELL, NEWBERY & Co. Ltd.

Manufacturer.

*A. Bradbury*  
DIRECTOR.



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Lloyd's Register  
Foundation  
011536-011543-0165

Dates of Survey while building { During progress of work in shops - - } 1940 July 11, 12  
 { During erection on board vessel - - - }  
 Total No. of visits 2

Dates of Examination of principal parts—Cylinders 11.7.40 Covers 11.7.40 Pistons 11.7.40 Piston rods -  
 Connecting rods 11.7.40 Crank and Flywheel shafts 11.7.40 Intermediate shafts -  
 Crank and Flywheel shafts, Material O.H. Steel Identification Marks Lloyds 108 ELK 8.3.40  
 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 Mch. Report No.

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

This Engine has been constructed under Special Survey of tested materials and is in accordance with the Secretary's letters, approved plans and rule requirements. The materials and workmanship are of a good quality and the Engine when tested in Shop under full load conditions shewed satisfactory results. In my opinion this Engine is suitable to be placed on board a vessel, classed with this Society, for the purpose intended.

*This Engine has been mounted with a Centrifugal pump on a portable frame work. Two sets were ordered for each of the following vessels "Allurance", "Diligent", "Prudent" & "Resolute" and are being sent as may be determined by the Admiralty to bases for use in salvage by any of the above ships*

*L. J. [Signature]  
 28/10/40  
 Hull*

INCLUSIVE FEE CASE

100,11,37, - Transfer. (MADE IN ENGLAND.)  
 (The Surveyors are requested not to write on or below the space for Committee Minutes.)

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

*[Signature]*  
 Surveyor to Lloyd's Register of Shipping.

Committee's Minute TUE. 10 DEC 1940  
 Assigned *See Hull of E. 50966*

