

Rpt. 4e.

REPORT ON OIL ENGINE ELECTRIC GENERATOR SETS.

No. 11129

Date of writing Report 5th Aug 1942 When handed in at Local Office 14th Aug 1942 Port of Manchester Received at London Office 17 AUG 1942

No. in Survey held at Reddish Date, First Survey 6th May 1942 Last Survey 7th Aug 1942 Number of Visits 5

Reg. Book. 86262 on the Single Screw vessel m/v "EMPIRE REYNARD" Tons { Gross 321 Net

Built at Lowestoft By whom built Richards Ironworks Yard No. 301 When built 1942

Owners Ministry of War Transport Port belonging to Lowestoft

Oil Engines made at Reddish By whom made Crossley Bros. ENGINE Contract No. 130891 When made 1942

Generators made at Boothle By whom made Campbell & Isherwood GENERATOR Contract No. 16173 When made 1942

No. of Sets 1 Engine Brake Horse Power 14 Nom. Horse Power as per Rule 4 Total Capacity of Generators 3 Kilowatts.

OIL ENGINES, &c.—Type of Engines Direct injection heavy oil engine or 4 stroke cycle 4 Single or double acting single

Maximum pressure in cylinders 850 lbs/sq in Diameter of cylinders 5" Length of stroke 6.25" No. of cylinders 1 No. of cranks 1

Span of bearings, adjacent to the Crank, measured from inner edge to inner edge 6 3/8" Is there a bearing between each crank —

Revolutions per minute 1000 Flywheel dia. 24" Weight 460 lbs. Means of ignition compression kind of fuel used Heavy

Crank Shaft, dia. of journals 3 1/2" as per Rule APPROVED Crank pin dia. 3 1/4" (2" axial hole) Mid. length breadth 4 1/2" Thickness parallel to axis

Flywheel Shaft, diameter as per Rule FLYWHEEL FITTED Intermediate Shafts, diameter as per Rule Thickness around eyehole

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 65 gals per hour.

Air Compressors, No. one No. of stages one Diameters 3 1/4" Stroke 3/4" Driven by Aux Eng.

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 drip proof type.

Pressure of supply 110 volts. Full Load Current 27 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 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 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

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

SHAFTING. Are approved plans forwarded herewith for Shafting

The foregoing is a correct description,

CROSSLEY BROTHERS LIMITED,

Moque

Manufacturer.



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25/8/42

Dates of Survey while building { During progress of work in shops - - } 15-4-40, 12-11-41, 6-5-42, 15-7-42, 5/8/42
 { During erection on board vessel - - - }
 Total No. of visits 5

Dates of Examination of principal parts—Cylinders 6-5-42 Covers 6-5-42 Pistons 6/5/42 Piston rods 6/5/42
 Connecting rods 12-11-41 Crank and Flywheel shafts 6-5-42 Intermediate shafts ✓

Crank and Flywheel shafts, Material SMOH Steel Identification Marks LLOYDS 950. 6/5/42 g.k.b.
 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 H. Robb. Yard No 319.

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

This engine has been built under special survey, of tested materials and is in accordance with Secretary's letters, approved plans and Rule Requirement. The materials used and the workmanship are of good quality, and when tested in the shop under full load conditions gave satisfactory results.

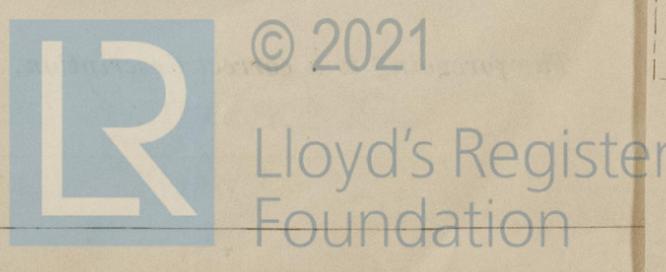
In my opinion, this engine is suitable to be placed on board a vessel, classed with this Society, for the purpose intended.

Copy of generator Test certificate herewith attached.

The amount of Fee ... £ 4 : 4/- : When applied for, 14th Aug 1942 E.G.
 Travelling Expenses (if any) £ : 10/- : When received, 19

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

Committee's Minute FRI. 23 OCT 1942
 Assigned See fe. machy rpl



1 in. 5.37.—Transfer. (The Surveyors are requested not to write on or below the space for Committee Minutes.)