

REPORT ON OIL ENGINE ELECTRIC GENERATOR SETS.

No. 10696

Date of writing Report 23rd Sept. 1941 When handed in at Local Office 24th Sept. 1941 Port of Manchester Received at London Office 26 SEP 1941

No. in Survey held at Reddish Reg. Book. Date, First Survey 27th March Last Survey 4th Sept, 1941

Single on the Twin Triple Quadruple Screw vessel

Built at Lowestoft By whom built Richards Iron works Yard No. 281 When built 1941

Owners Port belonging to

Oil Engines made at Reddish By whom made Crossley Bros. Ltd. ENGINE Contract No. 129911 When made 1941

Generators made at Liverpool By whom made Campbell & Isherwood GENERATOR Contract No. 15300 When made 1941

No. of Sets 1 Engine Brake Horse Power 12 Nom. Horse Power as per Rule 2.5 Total Capacity of Generator 3 Kilowatts.

OIL ENGINES, &c.—Type of Engines Direct injection heavy oil engine 2 or 4 stroke cycle 4 Single or double acting single

Maximum pressure in cylinders 150 lbs. 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 oil

Crank Shaft, dia. of journals as per Rule APPROVED & as fitted 3 1/2" Crank pin dia. 3 1/4" (2" axial hole) Crank Webs Mid. length breadth 4 1/2" Thickness parallel to axis shrunk Mid. length thickness 1 13/16" Thickness around eye hole

Flywheel Shaft, diameter as per Rule FLYWHEEL FITTED as fitted ON CRANKSHAFT Intermediate Shafts, diameter as per Rule as fitted Thickness of cylinder liners 9/32"

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 65 gallons per hour

Air Compressors, No. One No. of stages One Diameters 3 1/4" Stroke 3 1/4" Driven by Eng 129911

Scavenging Air Pumps, No. Diameter Stroke Driven by

AIR RECEIVERS:—Have they been made under Survey

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 as per rule when full load is suddenly thrown on and off yes

Generators, are they compounded as per rule

is an adjustable regulating resistance fitted in series with each

shunt field yes.

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

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 1st August, 1940 Receivers

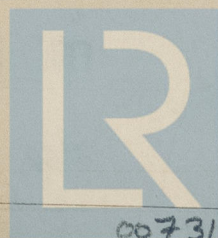
Separate Tanks 1st August, 1940.

SPARE GEAR As per Rule requirements

The foregoing is a correct description.

CROSSLEY BROTHERS LIMITED,

Manufacturer.



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Dates of Survey while building { During progress of work in shops - - 27-3-41 & 4-9-41
During erection on board vessel - - -
Total No. of visits

Dates of Examination of principal parts—Cylinders 27-3-41 Covers 27-3-41 Pistons 27-3-41 Piston rods
Connecting rods 15-4-40 Crank and Flywheel shaft 15-4-40 Intermediate shafts ✓
Crank and Flywheel shaft, Material S.M. Ingot Steel Identification Marks LLOYD'S No 950 J.A. 15-4-40
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 Richards Ironworks No 280

General Remarks (State quality of workmanship, opinions as to class, &c. This engine has been constructed under Special Survey of tested materials and in accordance with the Secretary's letters, approved plans and the requirements of the Rules. The materials and workmanship are good and the engine was found to be satisfactory when tested in the shop under full working conditions. This engine is suitable in my opinion for its intended service on board a vessel classed with the Society.

The amount of Fee ... £ 4 : 4 : 24th Sept. 1941
Travelling Expenses (if any) £ : 6/- : When received, 11th Oct. 1941

FRI. 2 JAN 1942

Committee's Minute

Assigned

See Lon J.E. 110099

W. J. Ferguson
Surveyor to Lloyd's Register of Shipping.



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