

Rpt. 4c.

REPORT ON OIL ENGINE ELECTRIC GENERATOR SETS.

No. 9267.

Date of writing Report 11/6/1938

1938

When handed in at Local Office

11th June 1938

Port of

MANCHESTER.

Received at London Office JUN 13 1938

No. in Survey held at

STOCKPORT.

Reg. Book.

Date, First Survey 16th May.

Last Survey 31st May 1938

Number of Visits 4.

Single
on the Twin
Triple
Quadruple

Screw vessel "La Carriere"

Tons { Gross 5685
Net 3231

Built at Wallsend-on-Tyne.

By whom built Swan, Hunter & Wigham Richardson

Yard No. 1555

When built 1938

Owners Trinidad Leaseholds Ltd

Port belonging to London

Oil Engines made at Stockport

By whom made Crossley Bros. Ltd.

Contract No. 404/933

When made 1938

Generators made at Sunderland.

By whom made The Sunderland Engineering Works

Contract No.

When made 1938

No. of Sets ONE Engine Brake Horse Power 72.

Nom. Horse Power as per Rule 14.6.

Total Capacity of Generators 45. Kilowatts.

OIL ENGINES, &c.—Type of Engines VERTICAL SOLID INJECTION.

2 or 4 stroke cycle 4 Single or double acting SINGLE

Maximum pressure in cylinders 750 lbs. sq. in. Diameter of cylinders 5 ins.

Length of stroke 6 1/4 ins. No. of cylinders 6. No. of cranks 6.

Span of bearings, adjacent to the Crank, measured from inner edge to inner edge 12 1/4 ins.

Is there a bearing between each crank No.

Revolutions per minute 850. Flywheel dia. 24 ins.

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 ins. Crank pin dia. 3 1/4 ins.

Crank Webs Mid. length breadth 4 1/2 ins.

Mid. length thickness 1 3/4 ins. shrunk

Thickness parallel to axis

Flywheel Shaft, diameter

as per Rule

Intermediate Shafts, diameter

as per Rule

Thickness of cylinder liners 9/32 in.

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 Yes.

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.

DIA. 1 1/8 in x STROKE 1 1/2 in.

Air Compressors, No. One.

No. of stages 2.

Diameters 2 3/8 in. & 2 1/8 - 2 3/8 ins.

Stroke 1 in.

Driven by GOVERNOR SHAFT.

Scavenging Air Pumps, No.

Diameter

Stroke

Driven by

AIR RECEIVERS:—Have they been made under Survey

Yes.

State No. of Report or Certificate Sur. C/279.

Is each receiver, which can be isolated, fitted with a safety valve as per Rule

Yes.

Can the internal surfaces of the receivers be examined

Yes.

What means are provided for cleaning their inner surfaces Train plug at bottom

Is there a drain arrangement fitted at the lowest part of each receiver

Yes.

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. One.

Total cubic capacity 1/2 cu. ft.

Internal diameter 5 1/8 ins.

thickness 3/16 ins.

Seamless, lap welded or riveted longitudinal joint

Material

Range of tensile strength

Working pressure by Rules Approved.

ELECTRIC GENERATORS:—Type CONTINUOUS RATED, DIRECT CURRENT, COMPOUND WOUND.

Pressure of supply 110. volts.

Full Load Current 410.

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

Yes.

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

Yes.

SEE SLD. CERT. DATED 28.4.38.

PLANS. Are approved plans forwarded herewith for Shafting

Yes.

Receivers

Yes.

Separate Tanks

Yes.

SPARE GEAR

6 Fuel pump plungers springs. 6 Piston rings, 6 gudgeon pins. Spare links for Reynolds chain. 12 each of valve springs for inlet & outlet valves, assorted joints.

The foregoing is a correct description,

CROSSLEY BROTHERS LTD.,

Manufacturer.

J. H. Maynard



© 2020

Lloyd's Register
Foundation

W186-0203

Dates of Survey while building { During progress of work in shops - } 16. 28. 30. & 31. MAY. 1938.
{ During erection on board vessel - - }
Total No. of visits 4. In Shop.

Dates of Examination of principal parts—Cylinders 16. 5. 38. Covers 16. 5. 38. Pistons 16. 5. 38. Piston rods ✓
Connecting rods 16. 5. 38. Crank and Flywheel shafts 16. 5. 38. Intermediate shafts ✓
Crank and Flywheel shafts, Material 40C. 1% N. O. A STEEL. O. H. & T. Identification Marks LLOYDS. No 987. GRC. 16. 5. 38.
Intermediate shafts, Material ✓ Identification Marks ✓
Identification marks on Air Receivers LLOYDS TESTED. 1200 lbs
RWC. WP. 600 lbs ✓
23. 3. 38.

Is this machinery duplicate of a previous case. ✓ If so, state name of vessel ✓

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 Rule requirements. The material and workmanship employed were found to be good throughout, and the engine with the electric generator was tried on the test bed, under working conditions with satisfactory results.

This engine is in my opinion eligible to be fitted on board a vessel classed with this Society, for the purpose intended.

Copies of certificates for Electric Generator and Air Receivers herewith

This machine has been fitted on board in a satisfactory manner, tried under working conditions and found efficient.

The amount of Fee ... £ 5 : 5 : When applied for, 11/6/1938
Travelling Expenses (if any) £ 7/6 : When received, 30/7/1938
FRI 2 SEP 1938

Committee's Minute

Assigned

See No. 96584

George R. Chappel. J. Seller.
Surveyor to Lloyd's Register of Shipping.



© 2020

Lloyd's Register
Foundation

Generator test certificate