

# REPORT ON OIL ENGINE ELECTRIC GENERATOR SETS.

No. 10,293.

DEC 14 1940

Received at London Office

Date of writing Report 9/12/40 19 40 When handed in at Local Office MANCHESTER Port of

No. in Survey held at Reg. Book.                      Date, First Survey 28/10/40 Last Survey 29/11/40 19 40  
Number of Visits 4

Single }  
on the Twin } Screw vessel 5/8" TRADER"  
Triple }  
Quadruple }

Tons { Gross  
Net

Built at                      By whom built                      Yard No.                      When built                     

Owners                      Port belonging to ENGINE  
Oil Engines made at REDDISH By whom made CROSSLEY BROS Contract No. 129579 When made 1940

Generators made at LIVERPOOL By whom made CAMPBELL & ISHERWOOD Contract No. 14596 When made                     

No. of Sets ONE Engine Brake Horse Power 8 Nom. Horse Power as per Rule                      Total Capacity of Generators 5 Kilowatts.

OIL ENGINES, &c.—Type of Engines VERTICAL. PETROL/PARAFFIN 2 or 4 stroke cycle 4 Single or double acting SINGLE

Maximum pressure in cylinders 450 lb/sq" Diameter of cylinders 4" Length of stroke 4 1/2" No. of cylinders ONE No. of cranks ONE

Span of bearings, adjacent to the Crank, measured from inner edge to inner edge 3 1/16" Is there a bearing between each crank —

Revolutions per minute 1500 Flywheel dia. 19" Weight 178 lbs. Means of ignition MAGNETO Kind of fuel used PARAFFIN

Crank Shaft, dia. of journals 3 1/4" as per Rule APPROVED as fitted 3 1/4" & 100 7- Crank pin dia. 1 7/8" hole Crank Webs                      Mid. length breadth 3 1/16" Thickness parallel to axis SOLID  
Mid. length thickness                      Thickness around eye-hole                     

Flywheel Shaft, diameter                      as per Rule                      as fitted                      Intermediate Shafts, diameter                      as per Rule                      as fitted                      Thickness of cylinder liners 28"

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. 9/16" x 1/2" STROKE.

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 110 volts. Full Load Current 45.5 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 —

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 YES

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 - - } 1940. OCTOBER 28 + 31. NOVEMBER 19 + 29.  
 { During erection on board vessel - - - }  
 Total No. of visits

Dates of Examination of principal parts—Cylinders 28/10/40 Covers 31/10/40 Pistons 31/10/40 Piston rods —

Connecting rods 31/10/40 Crank and Flywheel shafts 19/11/40 Intermediate shafts —

Crank and Flywheel shafts, Material O.H. STEEL Identification Marks LLOYDS 1278. 18/10/40. ELK.

Intermediate shafts, Material — Identification Marks —

Identification marks on Air Receivers —

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 built under special survey, of tested materials + in accordance with Secretary's letters, approved plans + Rule requirements.

The materials used + the workmanship are of good quality, + the engine, 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 Certificate attached hereto.

Im. 11.37.—Transfer. (MADE IN ENGLAND.)  
 (The Surveyors are requested not to write on or below the space for Committee Minute.)

The amount of Fee ... £ 4 : 4 - : } When applied for, 12/12/40  
 Travelling Expenses (if any) £ - 6/- : } When received, 19

*S. Knowles.*  
 Surveyor to Lloyd's Register of Shipping.

Committee's Minute

Assigned See Glasgow F.E. report No 63260



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