

Rpt. 4c.

# REPORT ON OIL ENGINE ELECTRIC GENERATOR SETS.

No. 9267

Date of writing Report 11/6/1938 When handed in at Local Office 11<sup>th</sup> June 1938 Port of MANCHESTER Received at London Office JUN 13 1938  
 No. in Survey held at STOCKPORT Date, First Survey 16<sup>th</sup> May Last Survey 31<sup>st</sup> May 1938  
 Reg. Book. Number of Visits 4

Single on the Triple Screw vessel "La Carriere" Tons { Gross 5685 Net 3231  
 Built at Walkend-on-Tyre By whom built Swan, Hunter & Wigham Richardson Yard No. 1555 When built 1938  
 Owners Trinidad Leadholds 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

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 3 1/2 INS. Crank pin dia. 3 1/4 INS. Mid. length breadth 4 1/2 INS. Thickness parallel to axis ✓  
 as per Rule Approved Crank Webs Mid. length thickness 1 3/4 INS. Thickness around eyehole ✓  
 as fitted 3 1/2 INS. Flywheel Shaft, diameter as per Rule Intermediate Shafts, diameter as per Rule Thickness of cylinder liners 9/32 IN.  
 as fitted ✓ 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 1/8 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

Is each receiver, which can be isolated, fitted with a safety valve as per Rule Yes State No. of Report or Certificate SWS. C/1279  
 Can the internal surfaces of the receivers be examined Yes What means are provided for cleaning their inner surfaces brass 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 Yes  
 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 ✓ 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.

*W. H. Hayward*



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Lloyd's Register Foundation

W186-0203

*14/6/38*

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. W.P. 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 Receives 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, 20/7/1938  
 FRI 2 SEP 1938

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

Committee's Minute  
 Assigned See No. 96584

1m. 5. 37. - Transfer. (The Surveyors are requested not to write on or below the space for Committee Minute.)

Generator test Certificate

