

# REPORT ON OIL ENGINE ELECTRIC GENERATOR SETS.

No. 20703.

SEP - 5 1938

Received at London Office

Writing Report 2-9-1938 When handed in at Local Office 2-9-1938. Port of

Grimsby

 in Survey held at Lincoln  
 Book.

Date, First Survey 16-9-35 Last Survey 25-8-1938.

Number of Visits 24

 3549 on the <sup>Single</sup> <sup>Motor</sup> <sup>Screw vessel</sup> <sup>"Puriri"</sup>  
 35. <sup>Twin</sup> <sup>Triple</sup> <sup>Quadruple</sup>

 Tons { Gross 927  
 Net 423

at Leith By whom built Henry Robb, Ltd. Yard No. When built 1938

by The Anchor Shipping &amp; Foundry Co Ltd Port belonging to Nelson N.Z.

 Engines made at Lincoln By whom made Ruston & Hornsby, Ltd. ENGINE 193294  
 Contract No. 193295 When made 1938

 Generators made at Norwich By whom made Lawrence, Scott & Bellhousers, Ltd. GENERATOR 75998/47  
 Contract No. When made 1938

of Sets 3 Engine Brake Horse Power 62 Nom. Horse Power as per Rule 17 Total Capacity of Generators 120 Kilowatts.

ENGINES, &amp;c.—Type of Engines 6192 Vertical Solid Injection 2 or 4 stroke cycle 4 Single or double acting single

minimum pressure in cylinders 800 lbs. Diameter of cylinders 5 3/8" Length of stroke 8" No. of cylinders 6 No. of cranks 6

of bearings, adjacent to the Crank, measured from inner edge to inner edge 6 1/4" Is there a bearing between each crank Yes

revolutions per minute 600 Flywheel dia. 34" Weight 842 lbs. Means of ignition Compression Kind of fuel used Heavy oil

Crank Shaft, dia. of journals as per Rule Approved 3 5/8" Crank pin dia. 3 1/4" Crank Webs Mid. length breadth 5 7/8" Thickness parallel to axis

as fitted 3 5/8" Mid. length thickness 1 39/64" shrunk Thickness around eyehole

Wheel Shaft, diameter as per Rule Approved 3 5/8" Intermediate Shafts, diameter as per Rule Thickness of cylinder liners 1/2"

governor or other arrangement fitted to prevent racing of the engine when declutched Yes Means of lubrication Forced

the cylinders fitted with safety valves Yes Are the exhaust pipes and silencers water cooled or lagged with non-conducting material Water cooled

Driving 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 geared

Compressors, No. One No. of stages Single Diameters 2 3/4" Stroke 2 1/4" Driven by Aux. engine

Sucking Air Pumps, No. Diameter Stroke Driven by

RECEIVERS:—Have they been made under Survey Yes State No. of Report or Certificate C 3092

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

the internal surfaces of the receivers be examined Yes What means are provided for cleaning their inner surfaces Removal of fittings.

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

unless, lap welded or riveted longitudinal joint Material Range of tensile strength Working pressure by Rules

Working Air Receivers, No. One Total cubic capacity 5 Cub. ft. Internal diameter 1'-6" thickness 5/16"

unless, lap welded or riveted longitudinal joint Seams Material Steel Range of tensile strength 26-30 tons Working pressure by Rules approved.

ELECTRIC GENERATORS:—Type Enclosed-ventilated, drip-proof

pressure of supply 220 volts. Full Load Current 182 Amperes. Direct or Alternating Current Direct

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

out field Are all terminals accessible, clearly marked, and furnished with sockets Yes

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

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

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

ANSW. Are approved plans forwarded herewith for Shafting 24-10-33 Receivers 4-11-34 Separate Tanks

(If not, state date of approval)

ARE GEAR

As per Rule requirements.

 The foregoing is a correct description,  
 Ruston & Hornsby, Limited.

A Geo Kimber

Manufacturer.



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 Foundation

006741-006748-0135



Dates of Survey while building { During progress of work in shops - - 1935 Sep 16, 19, Oct. 3, 22, Nov. 7, 19, 1936 Jan 6, 1938 Jan 6, Feb. 3, 21, Mar. 21, 28, Apr. 11, 15, May 30  
During erection on board vessel - - - Feb. 5, 7, 11, 14, 25, Aug. 8, 16, 25.  
Total No. of visits 24

Dates of Examination of principal parts—Cylinders 25.7.38-16.8.38 Covers 25.7.38, 16.8.38 Pistons 25.7.38, 16.8.38 Piston rods ✓

Connecting rods 8.6.38

Crank and Flywheel shafts 25.4.38, 25.4.38

Intermediate shafts ✓

Crank and Flywheel shafts, Material

Steel

Identification Marks

LLOYDS-3392-25.4-38 AS.  
" 3393-25.4-38 AS.  
" 3227-6.1-36 CHLP. 3394-14

Intermediate shafts, Material

Identification Marks.

Identification marks on Air Receivers

SY393  
LLOYDS TEST  
600 LBS  
WP300 LBS  
23-6-38 AS.

Is this machinery duplicate of a previous case *Yes* If so, state name of vessel *Im. Rpt. 19111.*

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

*These engines have been built under special survey, in accordance with the Rules and approved plans.  
The workmanship and materials are good.  
Running tests have been carried out at the Makers works with satisfactory results.  
The engines are being dispatched to Leith for fitting on board the vessel.*

*Request form attached.*

*0/5125/T/37/W.1894/6.  
P/IV. 4656  
P/12. 9550/1.*

The amount of Fee ... £ 15 : -

Travelling Expenses (if any) £ :

When applied for,

2-9-1938.

When received,

6/12-1938.

Committee's Minute

Assigned

TUE. 6 DEC 1938

*See Lth. 26. 19729*

*Quelke + H Knowles.*  
Surveyor to Lloyd's Register of Shipping.



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