

See also 2th Rpt No 19430

REPORT ON OIL ENGINE ELECTRIC GENERATOR SETS. No. 20703.

4c.

Received at London Office

Writing Report 2-9-1938 When handed in at Local Office 2-9-1938. Port of Grimsby
Survey held at Lincoln Date, First Survey 16-9-35 Last Survey 25-8-1938
Number of Visits 24

3549 on the Single Motor "Puriri" Tons {Gross 927
35. Triple Screw vessel {Net 423
Quadruple

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

owners The Anchor Shipping & Foundry Co Ltd Port belonging to Nelson N.Z.

Engines made at Lincoln By whom made Ruston & Hornsby, Ltd ENGINE Contract No. 193294 When made 1938
193295
Generators made at Norwich By whom made Laurence, Scott & Bellhousers, Ltd GENERATOR Contract No. 75998/47 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, &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

Distance 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 Crank pin dia. 3 1/4" Crank Webs Mid. length breadth 5 7/8" Thickness parallel to axis shrunk
as fitted 3 5/8" Mid. length thickness 1 39/64" Thickness around eyehole shrunk

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

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

Working Water Pumps, No. One Is the sea suction provided with an efficient strainer which can be cleared within the vessel Yes

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

Refrigerating Air Pumps, No. Yes Diameter Yes Stroke Yes Driven by Yes

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

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

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

High Pressure Air Receivers, No. Yes Cubic capacity of each Yes Internal diameter Yes thickness Yes

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

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 Yes 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 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

Do 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

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

ANS. Are approved plans forwarded herewith for Shafting 24-10-33 Receivers 4-11-34 Separate Tanks Yes
(If not, state date of approval)

SHAFTING AND GEAR As per Rule requirements

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



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Foundation

Dates of Survey while building
 During progress of work in shops - 1935 6.4, 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. 3394-14. 3227-6.1.36 CHLP. 3394-14.

Intermediate shafts, Material ✓ Identification Marks ✓

Identification marks on Air Receivers 57393
 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 despatched 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.

D. Duellie + H. Knowles.
 Surveyor to Lloyd's Register of Shipping.

Committee's Minute

MR 10/12.
 TUE. 6 DEC 1938

Assigned

See Lth. 26. 19729



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