

Rpt. 4c.

REPORT ON OIL ENGINE ELECTRIC GENERATOR SETS.

No. 20394

Received at London Office

DEC 22 1937

Date of writing Report 21.12.37 When handed in at Local Office 21.12.37 Port of Grimsby
 No. in Survey held at Lincoln Date, First Survey 22.3.37 Last Survey 17.12.1937
 Reg. Book. Number of Visits 12

on the Single Screw vessel N.Y. CARELIA Tons { Gross 8083
 { Net 4729
 Built at Amsterdam By whom built N.Y. Nedel Scheep M.Y. Yard No. 266 When built 1937
 Owners N.Y. Petroleum M.Y. La Carona Port belonging to Gravenhage
 Oil Engines made at Lincoln By whom made Ruston & Hornsby Ltd Contract No. 183343 When made 1937
 Generators made at Lincoln By whom made Lincoln Contract No. 183343 When made 1937
 No. of Sets 1 Engine Brake Horse Power 60 Nom. Horse Power as per Rule 18.6 Total Capacity of Generators 16 Kilowatts.

OIL ENGINES, &c.—Type of Engines 3 VCRZ Airless Injection Cold Starting 2 or 4 stroke cycle 4 Single or double acting Single
 Maximum pressure in cylinders 400 Diameter of cylinders 8" Length of stroke 10 3/4" No. of cylinders 3 No. of cranks 3
 Span of bearings, adjacent to the Crank, measured from inner edge to inner edge 9 1/8" Is there a bearing between each crank Yes
 Revolutions per minute 450 Flywheel dia. 3'-4" Weight 196 lbs. Means of ignition Compression Kind of fuel used Heavy oil
 Crank Shaft, dia. of journals as per Rule Approved Crank pin dia. 4 3/4" Crank Webs as per Rule Approved Mid. length breadth 8" Thickness parallel to axis shrunk
 as fitted 6" Mid. length thickness 2 1/2" Thickness around eyehole shrunk
 Flywheel Shaft, diameter as per Rule Approved Intermediate Shafts, diameter as per Rule Approved Thickness of cylinder liners 3/4"
 as fitted 6" 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 Yes Are the exhaust pipes and silencers water cooled or lagged with non-conducting material Water
 Cooling 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.
 Air Compressors, No. Yes No. of stages Yes Diameters Yes Stroke Yes Driven by Yes
 Scavenging Air Pumps, No. Yes Diameter Yes Stroke Yes Driven by Yes

AIR RECEIVERS:—Have they been made under Survey

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 Yes

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

Starting Air Receivers, No. Yes Total cubic capacity Yes Internal diameter Yes thickness Yes
 Seamless, lap welded or riveted longitudinal joint Yes Material Yes Range of tensile strength Yes Working pressure by Rules Yes

ELECTRIC GENERATORS:—Type

Pressure of supply Yes volts. Full Load Current Yes Amperes. Direct or Alternating Current Yes
 If 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
 shunt field 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
 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

PLANS. Are approved plans forwarded herewith for Shafting 11.11.32 Receivers Yes Separate Tanks Yes
 (If not, state date of approval)

SPARE GEAR

As per Rule requirements.

Ruston & Hornsby, Limited

The foregoing is a correct description,

R. Gough

Manufacturer.

Oil & Gas Engine Dept.



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004042-004048-0020

Dates of Survey while building { During progress of work in shops - - } 1937 Mar 22 Apr 1. 8. 12. 22. 29 May 20 Oct 14. 28. Nov 29. Dec 2. 17.
{ During erection on board vessel - - - }
Total No. of visits 12

Dates of Examination of principal parts—Cylinders 29-11-37 Covers 29-11-37 Pistons 29-11-37 Piston rods ✓
Connecting rods 29-11-37 Crank and Flywheel shafts 14-10-37 Intermediate shafts ✓
Crank and Flywheel shafts, Material Steel Identification Marks LLOYDS 3266A - 14-10-37 AS.
Intermediate shafts, Material ✓ Identification Marks ✓
Identification marks on Air Receivers

Is this machinery duplicate of a previous case *yes* If so, state name of vessel *Gen. Rpt 20302 (Wilton-Ferguson)*

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

This engine has 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 Hekus works with satisfactory results.
The engine is being despatched to Amsterdam to the order of H. V. Hekusson.*

A two stage compressor has been duly coupled to this engine & good Engine & air compressor fitted aboard in an efficient manner & good
Ernst J. J. J.

1m.537.—Transfer.
(The Surveyors are requested not to write on or below the space for Committee Minute.)

74732/P/10-7624
Request form attached
The amount of Fee ... yoke charged
Travelling Expenses (if any) £ Amount: When applied for, 19
When received, 19

Charles J. D. L. H. Collinson
Surveyor to Lloyd's Register of Shipping.

FRI 17 JUN 1938

Committee's Minute
Assigned

Not for Classing Committee
See And J.C.
15293

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