

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
Date, First Survey 22. 3. 37 Last Survey 17. 12. 1937
Number of Visits 12

No. in Survey held at Reg. Book. Lincoln

on the Single Screw vessel "M. 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. 189343 When made 1937

Generators made at Lincoln By whom made Lincoln Contract No. 189343 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 19 Cwt. 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 Mid. length breadth 8" Thickness parallel to axis shrunk

Flywheel Shaft, diameter as per Rule Approved Intermediate Shafts, diameter as per Rule shrunk Thickness around eyehole shrunk

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 Yes State No. of Report or Certificate L.Y.

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 Yes

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 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

SPARE GEAR As per Rule requirements

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

H. Lough Manufacturer.
Oil & Gas Engine Dept.



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Foundation
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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 *Sm. Rpt 20302 (Wilton-Fagenwood)*

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 maker's works with satisfactory results.
 The engine is being despatched to Amsterdam to the order of H. V. Verheijer.*

A two stage compressor has been duly coupled to this engine & goods engine & air compressor fitted aboard in an efficient manner & good
[Signature]

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 ... yobk charged
 Travelling Expenses (if any) & Amount: account
 When applied for, 19.....
 When received, 19.....

[Signature]
 Surveyor to Lloyd's Register of Shipping.

FRI 17 JUN 1938

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Committee's Minute
 Assigned

*Not for Classing
 Committee* // *See Ans J.C
 15293*

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