

# REPORT ON OIL ENGINE ELECTRIC GENERATOR SETS.

No. 20905

Received at London Office MAR 15 1939

Date of writing Report 14.3.1939 When handed in at Local Office 14.3.1939 Port of Grimsby  
 No. in Survey held at Lincoln Date, First Survey 7.4.38 Last Survey 2.3.1939  
 in Reg. Book. Number of Visits 10 + 5

on the Single Twin Triple Quadruple Screw vessel  
 Built at Amsterdam By whom built N.V. Nederlandsche Scheepbouw Maatschappij Yard No. 273 When built 1939  
 Owners N.V. Petroleum M<sup>te</sup> La Carona Port belonging to Gravenhage  
 Oil Engines made at Lincoln By whom made Ruston & Hornsby, Ltd. ENGINE Contract No. 190484 When made 1939  
 Generators made at By whom made Contract No. When made  
 No. of Sets One Engine Brake Horse Power 60 Nom. Horse Power as per Rule 17 Total Capacity of Generators Kilowatts.

IL ENGINES, &c.—Type of Engines 3 VCRZ Vertical Solid Injection 2 or 4 stroke cycle 4 Single or double acting Single  
 Maximum pressure in cylinders 400 lbs 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 6" Crank pin dia. 4 3/4" Crank Webs Mid. length breadth 8" Thickness parallel to axis  
 as fitted 6" Mid. length thickness 2 1/2" Thickness around eyehole  
 Flywheel Shaft, diameter as per Rule Approved 6" Intermediate Shafts, diameter as per Rule 3/4" 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 cooled.  
 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 geared  
 Air Compressors, No. one No. of stages 2 Diameters 20.6-104 mm Stroke 160 mm Driven by Engine  
 Scavenging Air Pumps, No. Diameter Stroke Driven by

IR RECEIVERS:—Have they been made under Survey State No. of Report or Certificate  
 Is each receiver, which can be isolated, fitted with a safety valve as per Rule  
 Can the internal surfaces of the receivers be examined What means are provided for cleaning their inner surfaces  
 Is there a drain arrangement fitted at the lowest part of each receiver  
 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. Total cubic capacity Internal diameter thickness  
 Seamless, lap welded or riveted longitudinal joint Material Range of tensile strength Working pressure by Rules

LECTRIC GENERATORS:—Type  
 Pressure of supply volts. Full Load Current Amperes. Direct or Alternating Current  
 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  
 Generators, are they compounded as per rule is an adjustable regulating resistance fitted in series with each  
 shunt field 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  
 If the generators are under 100 kw. full load rating, have the Makers supplied certificates of test and do the results comply with the requirements  
 If the generators are 100 kw. or over have they been built and tested under survey  
 LANS. Are approved plans forwarded herewith for Shafting 11.11.32 Receivers Separate Tanks  
 (If not, state date of approval)  
 PARE GEAR

As per Rule requirements.

Ruston & Hornsby Limited,  
 The foregoing is a correct description.  
 B. Lanyon  
 Oil & Gas Engine Dept.

Manufacturer.



© 2021

Lloyd's Register  
 Foundation

003341-003348-0059



Dates of Survey while building { During progress of work in shops -- } 1938 Apr 7-29 May 9 Jun 16 Jul 5 1939 Jan 2-13 Feb 9-27 Mar 2.  
{ During erection on board vessel --- } 1939 July 14 Aug 10-20 Sept 26-27  
Total No. of visits 0 + 5.

Dates of Examination of principal parts—Cylinders 2-3-39 Covers 2-3-39 Pistons 2-3-39 Piston rods ✓  
Connecting rods 16-6-38 Crank and Flywheel shafts 13-1-39 Intermediate shafts ✓  
Crank and Flywheel shafts, Material Steel Identification Marks LLOYDS 3441-13-1-39AS.  
Intermediate shafts, Material ✓ Housing Identification Marks LLOYDS 3421-13-1-39AS.  
Identification marks on Air Receivers ✓

Is this machinery duplicate of a previous case Yes If so, state name of vessel Gen. Opt. N° 20872.

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 Makers works with satisfactory results.

The engine is being despatched to H. V. Nederlandse Scheepsbouw Maatschappij, Amsterdam, for fitting on board the vessel.

This engine has been properly fastened aboard and connected to a stage compressor good.

Request form attached Gen. Rpt. N° 20874  
of 2035/P/13/12097-28/12/2.

The amount of Fee ... £ 5 : When applied for, 14.3.39  
Travelling Expenses (if any) £ : When received, 25.5.39

Mean see London Ltr. 25-5-39

FRI. 27 OCT 1939

Committee's Minute

Assigned

See Am. Ltr. 15788

Surveyor to Lloyd's Register of Shipping.



© 2021

Lloyd's Register Foundation