

4c.

REPORT ON OIL ENGINE ~~ELECTRIC~~ GENERATOR SETS.

No. 21008

Received at London Office 17 JUL 1939

of writing Report 14.7.39 When handed in at Local Office 14.7.39 Port of Grimsby  
 in Survey held at Lincoln Date, First Survey 19-6-37 Last Survey 26.6.39  
 Book. Number of Visits 10

on the <sup>Single</sup> ~~Triple~~ Screw vessel "THIARA"  
 (Quadruple)

Tons { Gross  
 Net

at Newcastle on Tyne By whom built Swan Hunter & Wigham Richardson Ltd Yard No. 1563 When built 1939-9  
 ers Anglo-Saxon Petroleum Co Ltd Port belonging to LONDON

Engines made at Lincoln By whom made Ruston & Hornsby Ltd Engine Contract No. 190241 When made 1939.

Generators made at Schiedam By whom made W. C. Hoeks Machine- en Juustoffabriek Contract No. 742 When made 1939.

of Sets One Engine Brake Horse Power 60 Nom. Horse Power as per Rule 17 Total Capacity of Generators Kilowatts.

ENGINES, &c.—Type of Engines 3 VCRZ - Vertical Solid Injection 2 or 4 stroke cycle 4 Single or double acting Single  
 max pressure in cylinders 400 lbs. Diameter of cylinders 8" Length of stroke 10 3/4" No. of cylinders 3 No. of cranks 3

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 Cwts. 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" shrunk Thickness around eye-hole

Wheel Shaft, diameter as per Rule Approved 6" Intermediate Shafts, diameter as per Rule 3/4" Thickness of cylinder liners 3/4"

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.

Eng. 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 Two Diameters 184 mm & 206 mm Stroke 160 mm Driven by Engine

Enging Air Pumps, No. Diameter Stroke Driven by

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

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

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

Is a drain arrangement fitted at the lowest part of each receiver

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

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

Enging Air Receivers, No. Total cubic capacity Internal diameter thickness

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

ELECTRIC GENERATORS:—Type

Volts of supply Full Load Current Amperes Direct or Alternating Current

Is an 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

Are the generators, are they compounded as per rule Is an adjustable regulating resistance fitted in series with each

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

Do the generators are under 100 kw. full load rating, have the Makers supplied certificates of test and do the results comply with the requirements

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

VS. Are approved plans forwarded herewith for Shafting 11-11-32 Receivers Separate Tanks 25-2-38  
 (If not, state date of approval)

RE GEAR

As per Rule requirements.

The foregoing is a correct description.

Ruston & Hornsby Limited,  
 E. Loyson

Manufacturer.

Oil & Gas Engine Dept.



© 2021

Lloyd's Register  
 Foundation



1-PP-P-07  
COMPRESSOR  
Dates of Survey while building { During progress of work in shops - - } 1937 Jun 19.22 Aug 9.12.19 Sep 2.20 1939 May 1.4 Jun 26  
{ During erection on board vessel - - - }  
Total No. of visits 10

Dates of Examination of principal parts—Cylinders 26.6.39 Covers 26.6.39 Pistons 26.6.39 Piston rods  
Connecting rods 4.5.39 Crank and Flywheel shafts 1.5.39 Intermediate shafts  
Crank and Flywheel shafts, Material Steel Identification Marks LLOYD'S 3435-1.5.39AS.  
Intermediate shafts, Material ✓ Housing Identification Marks LLOYD'S 3345-1.5.39AS.  
Identification marks on Air Receivers ✓

Is this machinery duplicate of a previous case Yes If so, state name of vessel Gms. Rpt. No. 20948.

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

This engine and compressor 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 Maker's works with satisfactory results.

The set has been despatched to Messrs. Hawthorn, Leslie & Co., Ltd., Newcastle-on-Tyne for fitting on-board the vessel.

This Oil Engine/Compressor Set has been satisfactorily fitted on board the vessel and examined under working conditions

A. Watt  
Newcastle on Tyne  
29/9/39.

94203/P/11.8966-37/13/2652

Request form attached Gms. Rpt. No. 20376

The amount of Fee ... £ 5 = : When applied for, 14/7/39  
Travelling Expenses (if any) £ : : When received, 19.....

A. Watt

Surveyor to Lloyd's Register of Shipping.

Committee's Minute

Assigned

FR 13 OCT 1939

See Acc. No. 97941



© 2021

Lloyd's Register Foundation