

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 ^{Single} ~~Triple~~ ~~Quadruple~~ Screw vessel "THIARA"

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.
Motors 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
Maximum 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 as fitted 6" Crank pin dia. 4 3/4" Crank Webs Mid. length breadth 8" Thickness parallel to axis
Mid. length thickness 2 1/2" shrunk Thickness around eye-hole

Wheel Shaft, diameter as per Rule Approved as fitted 6" Intermediate Shafts, diameter as per Rule as fitted 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
Suctioning Air Pumps, No. Diameter Stroke Driven by

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

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

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

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

Eng. 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

Voltage of supply volts Full Load Current Amperes Direct or Alternating Current

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

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

Are approved plans forwarded herewith for Shafting 11-11-32 Receivers Separate Tanks 25-2-38

RE GEAR

As per Rule requirements.

The foregoing is a correct description,

R. Loyson

Manufacturer.

Oil & Gas Engine Dept.



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Lloyd's Register Foundation

1-PP-07
COMPRESSOR

Dates of Survey while building { During progress of work in shops - - } 1937 Jul 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 *Im. 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.*

Im. 11.57.—Transfer. (MADE IN ENGLAND.)
 (The Surveymen are requested not to write on or below the space for Committee Minute.)

94203/P/11.8966-37/13/2652
 Request form attached *Im. Rpt. No. 20376*

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

A. Walker

Surveyor to Lloyd's Register of Shipping.

FR 13 OCT 1939

Committee's Minute

Assigned

See No. 78.97941



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