

COMPRESSOR

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

No. 21112  
13 NOV 1939

Rpt. 4c.

Received at London Office 13 NOV 1939

Date of writing Report 9. 11. 1939 When handed in at Local Office 9. 11. 1939 Port of Grimsby  
No. in Survey held at Lincoln Date, First Survey 1. 5. 39 Last Survey 19. 10. 1939  
Reg. Book. Number of Visits 8

Single on the Twin Triple Quadruple } Screw vessel Tons { Gross Net

Built at By whom built Yard No. When built

Owners Port belonging to

Oil Engines made at Lincoln By whom made Ruston & Hornsby, Ltd. Engine Contract No. 200101 When made 1939

Compressor Generators made at Ipswich By whom made Beavell & Co. Ltd. Contract No. 59964 When made 1939

No. of Sets One Engine Brake Horse Power 60 Nom. Horse Power as per Rule 17 Total Capacity of Generators Kilowatts.

OIL 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 700 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 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" Thickness around eye-hole

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

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 Two Diameters 9 1/4" & 4" Stroke 7 1/2" Driven by Engine

Scavenging Air Pumps, No. Diameter Stroke Driven by

AIR 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

ELECTRIC 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

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

SPARE GEAR

As per Rule requirements

The foregoing is a correct description

Ruston & Hornsby Limited,

B. Long

Manufacturer.

Oil & Gas Engine Dept.



© 2020

Lloyd's Register Foundation

002784-002789-0091

COMPRESSOR

Dates of Survey while building: During progress of work in shops - 1939 May 1. 11. 18. 25 Aug 10. 24 Sep 13 Oct 19; During erection on board vessel - - - 8; Total No. of visits

Dates of Examination of principal parts - Cylinders 24.8.39 Covers 24.8.39 Pistons 24.8.39 Piston rods ✓

Connecting rods 10.8.39 Crank and Flywheel shafts 24.8.39 Intermediate shafts ✓

Crank and Flywheel shafts, Material Steel Identification Marks LLOYD'S 3489-24.8.39 C.B.

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 21030.

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 Makers works with satisfactory results.

The set is being despatched to Messrs J. G. Sinclair & Co. Greenock, for fitting on board the vessel.

This engine has been efficiently installed in the vessel & tested out under full working conditions with satisfactory results.

Charles J. Hunter  
Governor 4/1/40

0/3013/1/39/13/16 - P/13/13 413  
Request from attached

The amount of Fee ... £ 5:0:0

Travelling Expenses (if any) £ :

When applied for,

10/11/39

When received,

5/1/40

R.B.D.  
10

[Signature]

Surveyor to Lloyd's Register of Shipping.

Committee's Minute

Assigned.



© 2020

Lloyd's Register Foundation

10.5.37. - Transfer.

(The Surveyors are requested not to write on or below the space for Committee Minute.)