

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

No. 21112.
13 NOV 1939

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

Generators made at Ipawich By whom made Beaumont & 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 6" Crank pin dia. 4 3/4" Crank Webs Mid. length breadth 8" Thickness parallel to axis shrunk
 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 Thickness of cylinder liners 3/4"
 as fitted 6" as fitted ✓

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
 (If not, state date of approval)

SPARE GEAR

As per Rule requirements.

The foregoing is a correct description

Ruston & Hornsby Limited,

B. Long

Manufacturer.

Oil & Gas Engine Dept.



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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 has been built under special survey in accordance with the Rules and approved plans.~~
^{and compressor}
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 set is being despatched to Messrs J. G. Lincand & 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
Greenock 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.B.
10

Charles J. Hunter

Surveyor to Lloyd's Register of Shipping.

Committee's Minute

Assigned



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