

REPORT ON OIL ENGINE ~~ELECTRIC GENERATOR SETS~~

COMPRESSOR

Bel. 17305

No. 20748

NOV - 3 1938

Date of writing Report 2. 11. 38 When handed in at Local Office 2. 11. 38 Port of Trinity
 No. in Survey held at Lincoln Date, First Survey 13. 4. 38 Last Survey 24. 10. 38
 Reg. Book. Single on the Twin Triple Quadruple Screw vessel Single Screw Motor Tanker 'CAIRYDALE' Number of Visits 9
 Built at Belfast By whom built Harland & Wolff Ltd Yard No. 1014 When built 1939
 Owners Admiralty Port belonging to London
 Oil Engines made at Lincoln By whom made Ruston & Hornsby, Ltd ENGINE Contract No. 190488 When made 1938
 COMPRESSOR generators made at Schiedam By whom made W.A. Hoeks Machine en Juustoffabriek COMPRESSOR Contract No. 718 When made 1938
 No. of Sets One Engine Brake Horse Power 60 Nom. Horse Power as per Rule 18.6 Total Capacity of Generators ✓ Kilowatts.

L 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 ✓
 as fitted 6" 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 Lined
 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 184 & 206 7/8" Stroke 16 1/2" Driven by Engine
 Suckering 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 ✓
 short 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 7.9.31. Receivers ✓ Separate Tanks ✓
 (If not, state date of approval)

SHAFTING GEAR

As per Rule requirements

RUSTON & HORNBY, LIMITED
 The foregoing is a correct description,

R. L. Corp

Manufacturer.



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W1161-0169

Dates of Survey while building { During progress of work in shops - - 1938 Apr 13-29 May 12 July 21 Aug 4-25 Oct 6 10 Set
During erection on board vessel - - -
Total No. of visits 9.

Dates of Examination of principal parts—Cylinders 10-10-38 Covers 10-10-38 Pistons 10-10-38 Piston rods ✓
Connecting rods 16-6-38 Crank and Flywheel shafts 21-7-38 Intermediate shafts ✓
Crank and Flywheel shafts, Material Steel Identification Marks LLOYD'S 3343-21-7-38 AE
Intermediate shafts, Material ✓ Housing Identification Marks LLOYD'S 3422-4-8-38 ELK
Identification marks on Air Receivers ✓

Is this machinery duplicate of a previous case Yes If so, state name of vessel Gmwrp 30696.

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 Belfast to the order of Messrs Harland & Wolff, Ltd. for fitting on board the vessel.

This engine & compressor have been efficiently installed on board & tested under full working conditions with satisfactory results.

Charles W. Hunter
Belfast
6/2/39

Request form attached

9/5274/11/12/13/11052
-38/12/8.

The amount of Fee ... £ 5 :- When applied for, 2.11.1938
Travelling Expenses (if any) (Amount): When received, 6.1.1939.

Charles W. Hunter
Surveyor to Lloyd's Register of Shipping.

Committee's Minute

FRI 10 FEB 1939

Assigned

See 152 machy sh.



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