

COMPRESSOR REPORT ON OIL ENGINE ~~ELECTRIC GENERATOR SETS~~ No. 20914

Received at London Office **MAR 24 1939**

Date of writing Report 22.3.39 When handed in at Local Office 22.3.39 Port of Grimsby
No. in Survey held at Lincoln Date, First Survey 16.6.38 Last Survey 9.3.1939
Reg. Book. Lincoln Number of Visits 7

on the Single Twin Triple Quadruple Screw vessel M.V. "CEDARDALE" Tons Gross Net
Built at Greenock By whom built J. I. Kincaid & Co., Ltd Yard No. 121 When built _____
Owners _____ Port belonging to _____

Oil Engines made at Lincoln By whom made Ruston & Hornsby, Ltd ENGINE Contract No. 190492 When made 1939
COMPRESSOR Generators made at Peterborough By whom made Peter Brotherhood, Ltd COMPRESSOR Contract No. 64801B 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 400 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 Cwts. Means of ignition Compression Kind of fuel used Heavy oil
Crank Shaft, dia. of journals as per Rule Approved Crank pin dia. 4 3/4" Crank Webs 8" Mid. length breadth 8" Thickness parallel to axis ✓
as fitted 6" Mid. length thickness 2 1/2" shrunk Thickness around eye-hole ✓
Flywheel Shaft, diameter as per Rule Approved 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 ✓ Stroke ✓ 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 ✓

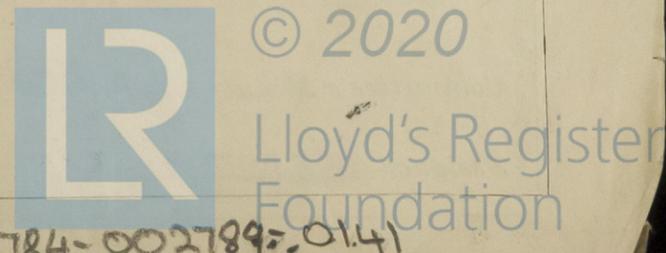
ELECTRIC GENERATORS:—Type _____
Pressure of supply ✓ volts. Full Load Current ✓ Amperes. Direct or Alternating Current ✓
If alternating current system, state the periodicity ✓ Has the Automatic Governor been tested and found efficient when the whole load is suddenly thrown on and off ✓
Generators, are 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.

Ruston & Hornsby Limited,
The foregoing is a correct description,
E. Wignall
Oil & Gas Engine Dept.

Manufacturer.



002784-002789-0141

27/3/39

Dates of Survey while building
 During progress of work in shops - - 1938 June 23 1939 Jan 30 Feb 13. 27 Mar 2. 9
 During erection on board vessel - - -
 Total No. of visits 7

Dates of Examination of principal parts—Cylinders 2-3-39 Covers 2-3-39 Pistons 2-3-39 Piston rods
 Connecting rods 16-6-38 Crank and Flywheel shafts 30-1-39 Intermediate shafts
 Crank and Flywheel shafts, Material Steel Identification Marks LLOYD'S 3436-30-1-39 AS
 Intermediate shafts, Material Housing Identification Marks LLOYD'S 3438-30-1-39 AS
 Identification marks on Air Receivers

Is this machinery duplicate of a previous case Yes If so, state name of vessel - Gm Rpt No 20892

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 has been despatched to Messrs J. L. Sinclair & Co. Ltd, Greenock for fitting on board the vessel.

This compressor set has been properly installed in the vessel.
 J. Boyle Greenock
 25-5-39.

Request from attaché Gm Rpt 20790
 of 2035/17/P/13/12096 - 38/13/10

The amount of Fee	£ 5 : -	When applied for, 22.3.39
Travelling Expenses (if any) £	:	When received, 6.5.39.

[Signature]
 Surveyor to Lloyd's Register of Shipping.

Committee's Minute GLASGOW 30 MAY 1939
 Assigned SEE ACCOMPANYING MACHINERY REPORT.



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