

COMPRESSOR

REPORT ON OIL ENGINE ELECTRIC GENERATOR SETS, No. 20872

LB -4 1939

Rpt. 4c.

Date of writing Report 3. 2. 1939 When handed in at Local Office 3. 2. 1939 Port of Grimsby

No. in Survey held at Reg. Book. 87788 on the Single Twin Triple Quadruple Screw vessel Diloma

Date, First Survey 2. 6. 38 Last Survey 19. 1. 1937 Number of Visits 9

Built at Birkenhead By whom built Cammell, Laird & Co., Ltd Yard No. 1037 When built 1939

Owners Anglo Saxon Petroleum Co. Port belonging to London

Oil Engines made at Lincoln By whom made Ruston & Hornsby, Ltd ENGINE Contract No. 191613 When made 1939

COMPRESSOR Generators made at Schiedam By whom made W.A. Koch's Machine- en Juurstofffabriek COMPRESSOR Contract No. 428 When made 1938

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 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

Flywheel Shaft, diameter as per Rule Approved 6" Intermediate Shafts, diameter as per Rule 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 18 1/4 - 20 6/8 in Stroke 160 mm 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

Can the internal surfaces of the receivers be examined What means are provided for cleaning their inner surfaces

Are 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

Is 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

Generators, are they compounded as per rule is an adjustable regulating resistance fitted in series with each

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

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

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

ARE GEAR As per Rule requirements

Ruston & Hornsby Limited,

The foregoing is a correct description,

[Signature]

Manufacturer.

Oil & Gas Engine Dept.



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Dates of Survey while building { During progress of work in shops - - } 1938 Jun 2-23. Jul 7. Dec 8-19. 22. 1939 Jan 9-13. 19
 { During erection on board vessel - - - }
 Total No. of visits 9.

Dates of Examination of principal parts—Cylinders 13-1-39 Covers 13-1-39 Pistons 19-1-39 Piston rods ✓
 Connecting rods 2-6-38 Crank and Flywheel shafts 19-12-38 Intermediate shafts ✓
 Crank and Flywheel shafts, Material Steel Identification Marks LLOYDS 3438-19-12-38 AS.
 Intermediate shafts, Material Housing Identification Marks LLOYDS 3437-19-12-38 AS.
 Identification marks on Air Receivers

Is this machinery duplicate of a previous case Yes If so, state name of vessel Gun Rpt No 20790.

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. Cammell, Laird & Co., Ltd., Birkenhead, for fitting on board the vessel.

This Machinery has been satisfactorily fitted on board, and run under working conditions + found satisfactory.
 J. S. Milton.

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

Request form attached Gun Rpt 20790
 072035/T/P/13/12095-38/13/32

The amount of Fee ... £ 5 - - : When applied for, 3/21/39
 Travelling Expenses (if any) £ : : When received, 13/4/39

Charles
 Surveyor to Lloyd's Register of Shipping.

Committee's Minute LIVERPOOL 31 MAY 1939
 Assigned See Minute on H.C. Machinery

