

# COMPRESSOR

Rpt. 4c.

## REPORT ON OIL ENGINE ELECTRIC GENERATOR SETS.

No. 20661  
27 1938

Date of writing Report 26.7.38 When handed in at Local Office 26.7.38 Port of Grimsby  
No. in Survey held at Reg. Book. Lincoln Date, First Survey 18.1.37 Last Survey 21.7.1938  
Number of Visits 7  
Single on the Twin Triple Quadruple Screw vessel M/S *Dosunia* Tons { Gross Net  
Built at Pt. Llagou By whom built Lettigers & Co Yard No. 910 When built 1938  
Owners Anglo Petroleum Port belonging to London  
Oil Engines made at Lincoln By whom made Ruston & Hornsby Ltd ENGINE Contract No. 185388 When made 1938  
Generators made at By whom made Contract No. When made  
No. of Sets One Engine Brake Horse Power 60 Nom. Horse Power as per Rule 18.6 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  
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. 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 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  
(If not, state date of approval)

SPARE GEAR

As per Rule requirements.

The foregoing is a correct description,

Ruston & Hornsby, Limited

Manufacturer.



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Foundation

W 382-0075



Dates of Survey while building { During progress of work in shops - - }  
{ During erection on board vessel - - }  
Total No. of visits

1936 Nov 30 Dec 1937 Jan 18 Mar 9 Apr 9 1938 May 9 June 11. 18. 21.

Dates of Examination of principal parts—Cylinders 11-7-38 Covers 11-7-38 Pistons 11-7-38 Piston rods ✓

Connecting rods 2-6-38 Crank and Flywheel shafts 9-5-38 Intermediate shafts ✓

Crank and Flywheel shafts, Material Steel Identification Marks LLOYD'S 3337-9-5-38 AS.

Intermediate shafts, Material ✓ Identification Marks Housing 3251 G-9-5-38 AS.

Identification marks on Air Receivers ✓

Is this machinery duplicate of a previous case? Yes. If so, state name of vessel Gun Ror 20376

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 Greenock to the order of Messrs J. I. Sinclair & Co. Ltd. for fitting on board the vessel.

Engine securely fitted on board. Tested & found satisfactory

Wm Gordon Sinclair  
Greenock

1m, 5, 37. — Transfer.  
(The Surveyors are requested not to write on or below the space for Committee Minute.)

Request form attached Gun Ror 20262

9/5/119/10/11.6091-36/11.1124

The amount of Fee ... £ 5 :- + 36/7/38

Travelling Expenses (if any) £ charged monthly

Committee's Minute GLASGOW 25 OCT 1938

Assigned SEE ACCOMPANYING MACHINERY REPORT.

Wm Gordon Sinclair

Surveyor to Lloyd's Register of Shipping.



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