

COMPRESSOR

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

No. 21030

pt. 4c.

Received at London Office AUG -4 1939

Date of writing Report 2. 8. 39 When handed in at Local Office 2. 8. 39 Port of Grimsby

No. in Survey held at Reg. Book. Lincoln Date, First Survey 16. 6. 38 Last Survey 27. 7. 39

Single on the Twin Triple Quadruple Screw vessel

M. U. DONACILLA

Tons Gross 8113 Net 4755

Built at Glasgow By whom built Blythwood S. B. Co. Yard No. 57 When built 1939

Owners Anglo Saxon Petroleum Co. Port belonging to

Oil Engines made at Lincoln By whom made Ruston & Hornsby, Ltd. Contract No. 194758 When made 1939

Generators made at Ipswich By whom made Russell & Co., Ltd. Contract No. 59740 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 as fitted 6" Crank pin dia. 4 3/4" Crank Webs Mid. length breadth 8" Thickness parallel to axis shrunk Mid. length thickness 2 1/2" Thickness around eyehole

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 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. 10" & 4 1/2" Puleona

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

SPARE GEAR

As per Rule requirements.

The foregoing is a correct description,

Ruston & Hornsby Limited,

[Signature]

Manufacturer.

Oil & Gas Engine Dept.



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003046-003055-0311

Dates of Survey while building { During progress of work in shops - - } 1938 June 16 1939 Feb 29. 16. June 15 22 Jul 3. 10. 24. 27.
 { During erection on board vessel - - - }
 Total No. of visits 10.

Dates of Examination of principal parts—Cylinders 3-7-39 Covers 3-7-39 Pistons 3-7-39 Piston rods ✓
 Connecting rods 16-6-38- 3-7-39 Crank and Flywheel shafts 15-6-39 Intermediate shafts ✓
 Crank and Flywheel shafts, Material Steel Identification Marks LLOYDS 3479-15-6-39 AS.
 Intermediate shafts, Material ✓ Housing Identification Marks LLOYDS 3482-15-6-39 AS.
 Identification marks on Air Receivers

Is this machinery duplicate of a previous case Yes. If so, state name of vessel Lms. App. No. 21008.

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 is being despatched to Lithgows, Ltd. Port Glasgow, for fitting on board the vessel.

This engine & compressor has been efficiently installed on board the vessel and tested with satisfactory results.

Charles F. Hunter
 Glasgow 4/11/39.

0/3114/T/38/13/144 - P/13/13229
 Survey request form attached.

The amount of Fee ... £ 5 : — : } When applied for, 2/8/39
 Travelling Expenses (if any) £ : : } When received, 1/12/39 R.B.J.

R. B. J.

Surveyor to Lloyd's Register of Shipping.

Committee's Minute

GLASGOW 7 - NOV 1939

Assigned

SEE ACCOMPANYING MACHINERY REPORT.



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