

Aux. Compressor

pt. 4c.

REPORT ON OIL ENGINE ELECTRIC GENERATOR SETS.

No. 20455

Received at London Office FEB 23 1938

Date of writing Report 19.2.38 When handed in at Local Office 19.2.38 Port of Grimsby
No. in Survey held at Lincoln Date, First Survey 24.6.37 Last Survey 10.2.38
Reg. Book. 39579 on the Single Screw vessel Omala Tons { Gross 6256
Triple Net 3594
Built at Spain By whom built Santieri Franchi dell' Adriatico Yard No. 1202 When built 1938
Owners Anglo-Saxon Oil Co. N.Y. "La Corona" Port belonging to Greenwich
Oil Engines made at Lincoln By whom made Ruston & Hornsby, Ltd ENGINE Contract No. 186274 When made 1938
Generators made at Lincoln By whom made Lincoln Contract No. 186274 When made 1938
No. of Sets 1 Engine Brake Horse Power 60 Nom. Horse Power as per Rule 18.6 Total Capacity of Generators 1 Kilowatts.

IL 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 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 6" Crank pin dia. 4 3/4" Crank Webs Mid. length breadth 8" Thickness parallel to axis shrunk
as fitted 6" Mid. length thickness 2 1/2" Thickness around eye-hole shrunk
Flywheel Shaft, diameter as per Rule Approved 6" Intermediate Shafts, diameter as per Rule 3/4" Thickness of cylinder liners 3/4"
as fitted 6" Is a governor or other arrangement fitted to prevent racing of the engine when de-clutched 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
Cooling Water Pumps, No. One Is the sea suction provided with an efficient strainer which can be cleared within the vessel Yes
Lubricating Oil Pumps, No. and size One, geared
Air Compressors, No. 61859 L 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. none 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. See Main 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 ✓
Magnet 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. ✓

Ruston & Hornsby, Limited

The foregoing is a correct description,

E. Lloyd

Manufacturer.

Oil & Gas Engine Dept.



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003534-003540-0193

Dates of Examination of principal parts—Cylinders 27-1-38 Covers 27-1-38 Pistons 27-1-38 Piston rods ✓

Connecting rods 14-12-37 Crank and Flywheel shafts 25-11-37 Intermediate shafts ✓

Crank and Flywheel shafts, Material Steel ✓ Identification Marks LLOYDS-3342-25-11-37 AS

Intermediate shafts, Material ✓ Identification Marks ✓

Identification marks on Air Receivers ✓

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.

They have been despatched to Trieste to the order of Messrs. Gandieri Riondielli & Co. Adriatico for fitting on board the vessel.

This motor has been satisfactorily fitted on board this vessel, coupled with an Air Compressor No 61859, made by Morris Peter Brotherhood, for which the London Report D 312 is attached herewith. The unit has been tested under working condition and found in order.

Trierte 9.6.38

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4203/P/W-8963-27/V.1281

Request form attached Guns Rq. 20376

The amount of Fee ... £ *70/-* *included* When applied for, _____ 19____
Travelling Expenses (if any) *on* *Arrival* *Account* When received, _____

Surveyor to Lloyd's Register of Shipping.

Committee's Minute

TUE 28 JUN 1938

Assigned

See Tri. Rpt 12109

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