

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

No. 20949

Date of writing Report 13.5.39 When handed in at Local Office 13.5.39 Port of Grimsby
 No. in Survey held at Reg. Book. Lincoln Date, First Survey 5th July 1938 Last Survey 8th May 1939
 Number of Visits 9

1154 on the ^{Single} ~~Triple~~ ^{Quadruple} Screw vessel "OVATELLA"
 Tons { Gross 6316.50
 Net 3636.55

Built at Odense By whom built Odense Haaskiboværk Yard No. 81 When built 1939

Owners The Anglo Saxon Petroleum Co. Port belonging to London

Oil Engines made at Lincoln By whom made Ruston & Hornsby Ltd. ENGINE Contract No. 190489 When made 1939

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 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
 as fitted 6" Mid. length thickness 2 1/2" shrunk Thickness around eyehole

Flywheel Shaft, diameter as per Rule Approved 6" 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

Air Compressors, No. No. of stages Diameters Stroke Driven by

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.

The foregoing is a correct description,

Ruston & Hornsby Limited,
 Oil & Gas Engine Dept.

Manufacturer.



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 Foundation

W375-0153

Dates of Survey while building { During progress of work in shops - - } 1938 Jul 5 Nov 10 1939 Jan 13 Feb 27. Mar 2. 13. Apr 24. 27. May 8
{ During erection on board vessel - - }
Total No. of visits 9

Dates of Examination of principal parts—Cylinders 27. 4. 39 Covers 27. 4. 39 Pistons 27. 4. 39 Piston rods ✓

Connecting rods 10-11-38-1 Crank and Flywheel shafts 27. 2. 39 Intermediate shafts ✓

Crank and Flywheel shafts, Material Steel Identification Marks LLOYDS 3420-27.2.39.15

Intermediate shafts, Material Housing Identification Marks LLOYDS 3441-2.3-39.15

Identification marks on Air Receivers

Is this machinery duplicate of a previous case Yes If so, state name of vessel Gms Rpt no 20931.

General Remarks (State quality of workmanship, opinions as to class, &c.)

This engine has 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 engine is being shipped to Messrs Odense, Staalshibsvaerft, Odense, Denmark.

This engine with its air compressor has been fitted on board the above vessel, tested under working conditions and found to work satisfactorily.

Ch. Hoff

SURVEYOR TO LLOYD'S
REGISTER OF SHIPPING

Request form attached Gms Rpt no 20790.

9/203517/13/12099-38/13/19.

The amount of Fee ... £ 5: -

Travelling Expenses (if any) £ :

When applied for, 13/1/39

When received, 14.7.1939

Ch. Hoff

Surveyor to Lloyd's Register of Shipping.

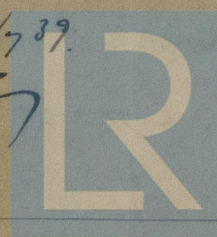
paid as per letter
C.4 dated London 14/7/39.

Committee's Minute

FRI. 8 DEC 1939

Assigned

No action



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