

Rdam. rep. No 28100 b.

pt. 4c.

REPORT ON OIL ENGINE ELECTRIC GENERATOR SETS.

No. 20765

Received London Office

NOV 21 1938

Date of writing Report 19. 11. 38 When handed in at Local Office 19. 11. 38 Port of Grimsby

No. in Survey held at Reg. Book. Date, First Survey 13. 4. 38 Last Survey 12. 11. 38 Number of Visits 8

on the ^{Single} ~~Twain~~ ~~Triple~~ ~~Quadruple~~ Screw vessel motor haul " CERONIA " Tons { Gross Net

Built at Schiedam By whom built Wilton-Tyenoord. Yard No. 665 When built 1939

Owners Mrs. Petroleum Works, La Corana. Port belonging to Copenhagen

Oil Engines made at Lincoln By whom made Ruston & Hornsby, Ltd. ENGINE Contract No. 190491 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.

IL ENGINES, &c.—Type of Engines 3 VCR 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 eye-hole

Flywheel Shaft, diameter as per Rule Approved 6" Intermediate Shafts, diameter as per Rule Thickness of cylinder liners 3/4" 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 One, geared.

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

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

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

armature 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

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

APPROVED. Are approved plans forwarded herewith for Shafting 11-11-32 Receivers Separate Tanks

ARE GEAR

As per Rule requirements.

The foregoing is a correct description, LLOYD & HORNBY, LIMITED

J. E. Lloyd

Manufacturer.



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Lloyd's Register

002750-002753-0095

Dates of Survey while building { During progress of work in shops - - } 1938 Apr 13 29 May 19 Aug 29 Sept 1, Nov 7, 10, 12.
 { During erection on board vessel - - - }
 Total No. of visits 8

Dates of Examination of principal parts—Cylinders 10-11-38 Covers 10-11-38 Pistons 10-11-38 Piston rods ✓

Connecting rods 16-6-38 Crank and Flywheel shafts 29-8-38 Intermediate shafts ✓

Crank and Flywheel shafts, Material Steel Identification Marks LLOYD'S 3423-29-8-38 AS

Intermediate shafts, Material ✓ Identification Marks ✓

Identification marks on Air Receivers

Is this machinery duplicate of a previous case Yes If so, state name of vessel *Gms. Rpt. No. 20696*

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 Makers works with satisfactory results.
 The engine has been despatched to Messrs Wilton - Tijenoord, Schiedam, Holland.*

1m.587.—Transfer. (The Surveyors are requested not to write on or below the space for Committee Minutes.)

*Request from attached Gms. Rpt. No. 20748
 05274/T/P/13/11058-38/13/7*

The amount of Fee £ 5 : - } When applied for, 19 11 38
 Travelling Expenses (if any) £ : } When received, 18 1 19 39
 (months by) : } [C.4]

[Signature]

Surveyor to Lloyd's Register of Shipping.

Committee's Minute Assigned

TUE 2 MAY 1939
See Rot. J.E. 28100



Rpt. 13.
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