

REPORT ON OIL ENGINE ELECTRIC GENERATOR SETS.

No. 20814

Date of writing Report 23rd Dec 1938 When handed in at Local Office 23rd Dec 1938 Port of Grimsby
 No. in Survey held at Lincoln Date, First Survey 10.2.38 Last Survey 8.12.1938
 Reg. Book. Single on the Twin M. Screw vessel CLAVELLA
Triple
Quadruple

Built at ROTTERDAM By whom built ROTT. DROOGD MY Yard No. 211 When built 1938
 Owners PETROLEUM MY LA CORONA Port belonging to S GRAVENHAGE
 Oil Engines made at Lincoln By whom made Ruston & Hornsby Ltd ENGINE Contract No. 190490 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 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.
 as per Rule Approved Crank pin dia. 4 3/4" Mid. length breadth 8" Thickness parallel to axis ✓
 as fitted 6" Crank Webs ✓ Mid. length thickness 2 1/2" Thickness around eyehole ✓
 Flywheel Shaft, diameter as per Rule Approved 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 One geared.
 Air Compressors, No. ✓ No. of stages ✓ Diameters ✓ Stroke ✓ Driven by ✓
 Scavenging Air Pumps, No. ✓ Diameter ✓ Stroke ✓ Driven by ✓

R RECEIVERS:—Have they been made under Survey ✓ State No. of Report or Certificate ✓
 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 ✓
 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 ✓
 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 ✓
 Are the generators under 100 kw. full load rating, have the Makers supplied certificates of test ✓ and do the results comply with the requirements ✓
 Are the generators 100 kw. or over have they been built and tested under survey ✓

Are approved plans forwarded herewith for Shafting 11.11.32 Receivers ✓ Separate Tanks ✓
 (If not, state date of approval)

RE GEAR
As per Rule requirements

Ruston & Hornsby Limited,
 The foregoing is a correct description.

R. L. Brown
 Oil & Gas Engine Dept.

Manufacturer.

Dates of Survey while building { During progress of work in shops - - } 1938 Feb 10-21. Apr 7-29 May 12 Jun 16. Nov 21-24-28 Dec 8
{ During erection on board vessel - - - } 10
Total No. of visits

Dates of Examination of principal parts—Cylinders 8-12-38 Covers 8-12-38 Pistons 8-12-38 Piston rods ✓
Connecting rods 16-6-38 Crank and Flywheel shafts 21-11-38 Intermediate shafts ✓
Crank and Flywheel shafts, Material Steel Identification Marks LLOYDS 3423-21-11-38
Intermediate shafts, Material ✓ Housing Identification Marks LLOYDS 3420-24-11-38
Identification marks on Air Receivers ✓

Is this machinery duplicate of a previous case Yes If so, state name of vessel Lms. Rpt. No. 20748

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 is being despatched to Messrs de Rotterdamse Droogdok Maatschappij, Rotterdam.

075274/11P/13/11053-38/13/8.

Request from attached Lms Rpt 20748.

The amount of Fee ... £ 5 : When applied for, 28.12.38

Travelling Expenses (if any) £ : When received, Jan 9/3.1939
[C.4]

Committee's Minute

Assigned

TUE. 16 MAY 1939

See Rot. J.E. 28728

[Signature]

Surveyor to Lloyd's Register of Shipping.



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