

Rpt. 4c.

# REPORT ON OIL ENGINE ELECTRIC GENERATOR SETS.

No. 20928  
JUL 19 1939

Date of writing Report 6-4-39 When handed in at Local Office 6-4-39 Port of Grimsby  
No. in Survey held at Lincoln Date, First Survey 13th Apr 1938 Last Survey 30th March 1939  
Reg. Book. Single on the Twin Screw vessel M.V. Oscilla Number of Visits 16  
Tons { Gross 6241  
Net 2590.

Built at Arispen a/d Yvel By whom built H. L. van der Lijden & Zonen Yard No. 654 When built 1929  
Owners M.V. Petroleum M. La Corona Port belonging to The Hague  
Oil Engines made at Lincoln By whom made Ruston & Hornsby, Ltd ENGINE Contract No. 190485 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 Cwts Means of ignition Compression Kind of fuel used Heavy oil  
Crank Shaft, dia. of journals as per Rule Approved 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 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 Force  
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 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 ✓  
(If not, state date of approval)

**SPARE GEAR**  
As per Rule requirements

The foregoing is a correct description.  
Ruston & Hornsby Limited,  
R. W. Lynch Manufacturer.  
Oil & Gas Engine Dept.

Dates of Survey while building { During progress of work in shops - - } 1938 Apr 13 29 May 6 19 June 5 7 Nov 11 24 1939 Jan 26 Feb 20 23 27 Mar 2 23 30  
 { During erection on board vessel - - - }  
 Total No. of visits 16

Dates of Examination of principal parts—Cylinders 21-2-39 Covers 21-3-39 Pistons 21-2-39 Piston rods ✓  
 Connecting rods 26-1-39 Crank and Flywheel shafts 23-2-39 Intermediate shafts ✓  
 Crank and Flywheel shafts, Material Steel Identification Marks LLOYDS 3440-23-2-39 AS.  
 Intermediate shafts, Material Hoising Identification Marks LLOYDS 3425-23-2-39 AS.  
 Identification marks on Air Receivers ✓

Is this machinery duplicate of a previous case *yes* If so, state name of vessel *Gen Rpr 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 Maker's works with satisfactory results.  
 The engine has been despatched to Messrs. H. V. C. van der Giessen & Jonckheere, Scheepswerven, Krimpun a/d Zee, Holland, for fitting on board the vessel.*

Im. 11.27.—Transfer. (MADE IN ENGLAND.)  
 (The Surveyors are requested not to write on or below the space for Committee Minute.)

Request from attached Gen Rpr to 20748

The amount of Fee ... £ 5 : — : When applied for, 6/4/39  
 Travelling Expenses (if any) £ : : When received, 14/7.19.39  
 (London C.A.)

*W. Kuelke*  
 Surveyor to Lloyd's Register of Shipping.

Committee's Minute FRI 28 JUL 1939  
 Assigned See Col. 76. 28393



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