

REPORT ON OIL ENGINE ELECTRIC GENERATOR SETS.

No. 20273

Date of writing Report 15-9-37. When handed in at Local Office 15-9-37 Port of *Grimsby*
 No. in Survey held at *Lincoln* Date, First Survey November 26th 1934 Last Survey Sept 9th 1937
 Reg. Book. Number of Visits 14

on the *Single* Screw vessel *MV. "CLEODORA"* Tons { Gross 4206 Net 4724
 Built at *Thuringen* By whom built *H. V. Koninklijke Maatschappij, de Schelde* Yard No. 206 When built 1937
 Owners *Petroleum, my* Port belonging to *Gravenhage*
 Oil Engines made at *Lincoln* By whom made *Ruston & Hornsby, Ltd.* Contract No. 175952 When made 1934
 Generators made at *Slackness* By whom made *Imet* Contract No. When made 1936
 No. of Sets 1 Engine Brake Horse Power 60 Nom. Horse Power as per Rule 18.6 Total Capacity of Generators 32 Kilowatts.

OIL ENGINES, &c.—Type of Engines *3 VCRZ Airless Injection Cold Starting 2 or 4 stroke cycle 4* Single or double acting *Single*
 Maximum pressure in cylinders 700 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 198 lbs. 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 *Approved* 6" Mid. length thickness 2 1/2" Thickness around eyehole *shrunk*
 Flywheel Shaft, diameter as per Rule *Approved* 6" Intermediate Shafts, diameter as per Rule *shrunk* Thickness of cylinder liners 3/4"
 as fitted *Approved* 6" as fitted *shrunk*
 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.*
 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.*

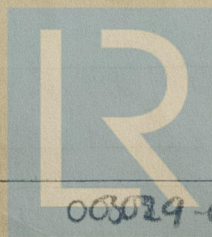
AIR RECEIVERS:—Is each receiver, which can be isolated, fitted with a safety valve as per Rule *yes*
 Can the internal surfaces of the receivers be examined *yes* What means are provided for cleaning their inner surfaces *yes*
 Is there a drain arrangement fitted at the lowest part of each receiver *yes*
 High Pressure Air Receivers, No. *yes* Cubic capacity of each *yes* Internal diameter *yes* thickness *yes*
 Seamless, lap welded or riveted longitudinal joint *yes* Material *yes* Range of tensile strength *yes* Working pressure by Rules *yes*
 Starting Air Receivers, No. *yes* Total cubic capacity *yes* Internal diameter *yes* thickness *yes*
 Seamless, lap welded or riveted longitudinal joint *yes* Material *yes* Range of tensile strength *yes* Working pressure by Rules *yes*

ELECTRIC GENERATORS:—Type *yes*
 Pressure of supply volts. Load Amperes. Direct or Alternating Current *yes*
 If alternating current system, state frequency of periods per second *yes*
 Has the Automatic Governor been tested and found efficient when the whole load is suddenly thrown on or off *yes*
 Generators, do they comply with the requirements regarding rating *yes* are they compound wound *yes*
 are they over compounded 5 per cent. *yes*, if not compound wound state distance between each generator *yes*
 is an adjustable regulating resistance fitted in series with each shunt field *yes* Are all terminals accessible, clearly marked, and furnished with sockets *yes*
 are they so spaced or shielded that they cannot be accidentally earthed, short circuited, or touched *yes* Are the lubricating arrangements of the generators as per Rule *yes*

PLANS. Are approved plans forwarded herewith for Shafting 11-11-32 Receivers *yes* Separate Tanks *yes*
 (If not, state date of approval)
 SPARE GEAR *As per Rule requirements* *yes*

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

B. Lloyd Manufacturer.
 9/9/37



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Lloyd's Register

Foundation

Dates of Survey while building { During progress of work in shops - - } 1936. Nov 26. 30. Dec 3. 14. 21. 1937. Jan 18. March 9. April 29 May 3. 31. June 7. 28. July 1. Aug 23. Sept 26.
{ During erection on board vessel - - - }
Total No. of visits

Dates of Examination of principal parts—Cylinders 6-9-37 Covers 6-9-37 Pistons 6-9-37 Piston rods ✓

Connecting rods 18-1-37 Crank and Flywheel shaft 9-3-37 Intermediate shaft ✓

Crank and Flywheel shafts, Material Steel Identification Mark 325/A 9-3-37 DLHC

Intermediate shafts, Material ✓ Identification Marks ✓

Is this machinery duplicate of a previous case Yes If so, state name of vessel Grimsby Aft 19694

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 materials & workmanship are good.
Running tests have been carried out at the Maker's works with satisfactory results.
The engine has been despatched to Vlissingen, to the order of H.V. Koninklijke Maatschappij, Vlissingen.

Im 631—Transfer.
(The Surveyors are requested not to write on or below the space for Committee Minute.)

9/5119/P/IV-6980
Sales order 36/IV 1181

The amount of Fee charged	£	:	:	When applied for,
1/10				19.....
Travelling Expenses (if any)	£	:	:	When received,
in Annual Account				19.....

Ch. H. H. H.
Surveyor to Lloyd's Register of Shipping.

FRI 29 JUL 1938

Committee's Minute
Assigned

See Rot. 26. 27107