

Rpt. 4c.

## REPORT ON OIL ENGINE ELECTRIC GENERATOR SETS.

No. 20575.

date of writing Report 4. 6. 38 when handed in at Local Office 4. 6. 38 Port of *Grimsby* Received at London Office JUN - 8 1938

No. in Survey held at *Lincoln* Date, First Survey 9. 8. 37 Last Survey 26. 5. 1938

Reg. Book. on the *Single* *Twin* *Triple* *Quadruple* Screw vessel Number of Visits 7

Tons { Gross  
Net

Built at By whom built Yard No. When built

Owners Port belonging to

Oil Engines made at *Lincoln* By whom made *Duxton & Hornsby, Ltd* ENGINE Contract No. 186537 When made 1938

Generators made at By whom made Contract No. When made

No. of Sets 1 Engine Brake Horse Power 40 Nom. Horse Power as per Rule 12.46 Total Capacity of Generators Kilowatts.

OIL ENGINES, &c.—Type of Engines *2 VCRZ- Vertical Solid Injection* 2 or 4 stroke cycle 4 Single or double acting *Single*

Maximum pressure in cylinders *700 lbs.* Diameter of cylinders *8"* Length of stroke *10 3/4"* No. of cylinders *2* No. of cranks *2*

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* as fitted *6"* Crank pin dia. *4 3/4"* Crank Webs Mid. length breadth *8"* Thickness parallel to axis *shrunk* Mid. length thickness *2 1/2"* Thickness around eyehole

Flywheel Shaft, diameter as per Rule *Approved* as fitted *6"* Intermediate Shafts, diameter as per Rule as fitted Thickness of cylinder liners *3/4"*

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:—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. Load Amperes. Direct or Alternating Current

If alternating current system, state frequency of periods per second

Has the Automatic Governor been tested and found efficient when the whole load is suddenly thrown on or off

Generators, do they comply with the requirements regarding rating are they compound wound

are they over compounded 5 per cent., if not compound wound state distance between each generator

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

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

SPARE GEAR

As per Rule requirements.

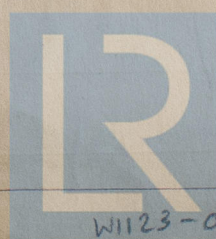
Duxton &amp; Hornsby, Limited.

The foregoing is a correct description.

E. J. Coyne

Manufacturer.

Oil &amp; Gas Engine Dept.



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W1123-0094



Dates of Survey while building { During progress of work in shops - - } 1937 Aug 9. 19. Sep 13. 1938 Mar 10. 30. May 23. 26.  
 { During erection on board vessel - - - }  
 Total No. of visits 7.

Dates of Examination of principal parts—Cylinders 26-5-38 Covers 26-5-38 Pistons 26-5-38 Piston rods ✓

Connecting rods 4-4-38 Crank and Flywheel shaft 10-3-38 Intermediate shaft ✓

Crank and Flywheel shafts, Material Steel ✓ Identification Mark LLOYD'S 3368-10-3-38 AS. ✓

Intermediate shafts, Material ✓ Identification Marks ✓

Is this machinery duplicate of a previous case Yes If so, state name of vessel Gen Rpt 20533

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 Amsterdam to the order of Messrs H. V. Werf Lucht, Holland.

This engine has been fitted in Messrs Red. 804 My Yard No 6 by Mr. T. Alberta and examined in working condition.

*M. M. M.*

Request for attached Gen Rpt 20533.  
 9/37/11. 1486.

The amount of Fee £ 10.00 included When applied for, 19  
 Travelling Expenses (if any) £ 0.00 When received, 19

*W. M. M.*

Surveyor to Lloyd's Register of Shipping.

Committee's Minute

FRI 11 NOV 1938

Assigned

See Ans 15435

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