

Rpt. 4c.

REPORT ON OIL ENGINE ELECTRIC GENERATOR SETS.

No. 20439

5 1938
MAY 24 1938

Received at London Office

Date of writing Report 4. 2. 38 When handed in at Local Office 4. 2. 38 Port of *Trinity*
No. in Survey held at *Lincoln* Date, First Survey 22-4-37 Last Survey 3-2-1938
Reg. Book. Number of Visits 1 1/2

on the *Single* *M.* Screw vessel "*CLEA*" Tons { Gross: Net:
Built at *Rotterdam* By whom built *Roth Drogda My* Yard No. *190* When built *1938*
Owners *Petr my for Corona* Port belonging to *Gravenhage*
Oil Engines made at *Lincoln* By whom made *Ruston & Hornsby, Ltd* ENGINE Contract No. *184174* When made *1937*
Generators made at By whom made Contract No. When made
No. of Sets / Engine Brake Horse Power *60* Nom. Horse Power as per Rule *18.6* 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 *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 *19 Pkts* 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
as fitted *6"* Mid. length thickness *2 1/2"* shrunk Thickness around eye-hole
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*
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
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 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.

RETAIN

RETAIN

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

R. C. Coysh Manufacturer.
Oil & Gas Engine Dept.



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FW37420125

Dates of Survey while building: During progress of work in shops - 1937 Apr 22 May 6 31 July 19 22 Aug 12 Sep 20 Nov 4 12 Dec 17 1938 Jan 3 6 Feb 3
 During erection on board vessel -
 Total No. of visits 13

Dates of Examination of principal parts - Cylinders 6-1-38 Covers 6-1-38 Pistons 6-1-38 Piston rods ✓
 Connecting rods 22-7-37 Crank and Flywheel shafts 4-11-37 Intermediate shafts ✓
 Crank and Flywheel shafts, Material Steel Identification Marks LLOYD'S 3273 - 4-11-37 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 Rps 20393 for De Rotterdamse D.M.

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 is being despatched to Rotterdam to the order of De Rotterdamse Broogdok Maatschappij.

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Im. 371 - Transfer.
 (The Surveyors are requested not to write on or below the space for Committee Minute.)

Request from attached to Gms Rps 20393
 2584/P/11.8431 - 37/11.511

The amount of Fee Charged in Account when applied for, £
 Travelling Expenses (if any) £ When received, £

A. Duval for D. L. H. Collinson & Co.
 Surveyor to Lloyd's Register of Shipping.

TUE. 31 MAY 1938

Committee's Minute
 Assigned

See Rob. J.E. 26918



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