

REPORT ON OIL ENGINE ELECTRIC GENERATOR SETS.

No. 8893

Date of writing Report 10 APRIL 1937 When handed in at Local Office 15.4.37 Port of MANCHESTER
No. in Survey held at MANCHESTER Date, First Survey FEB. 9. 1937 Last Survey APRIL 9. 1937
Reg. Book. Number of Visits 2

Single
on the Twin
Triple
Quadruple } Screw vessel
M/V "DUNERA"
Tons { Gross 11162
Net 6634

Built at By whom built BARCLAY CURLE & CO. Yard No. 663. When built 1937

Owners Port belonging to

Oil Engines made at MANCHESTER By whom made L. GARDNER & SONS LD. ENGINE Contract No. 38444 When made 1937

Generators made at SUNDERLAND By whom made SUNDERLAND FORGE & ENG CO. GENERATOR Contract No. F4242. When made 1937

No. of Sets ONE Engine Brake Horse Power 57 Nom. Horse Power as per Rule 16.4 Total Capacity of Generators 35 Kilowatts.

OIL ENGINES, &c. Type of Engines VERTICAL SOLID INJECTION 2 or 4 stroke cycle Single or double acting SINGLE

Maximum pressure in cylinders 650. LBS Diameter of cylinders 4 1/4" Length of stroke 6" No. of cylinders 6 No. of cranks 6

Span of bearings, adjacent to the Crank, measured from inner edge to inner edge 5 3/16" Is there a bearing between each crank YES

Revolutions per minute 1000 Flywheel dia. 26" Weight 511. LBS Means of ignition COMPRESSION Kind of fuel used HEAVY OIL

Crank Shaft, dia. of journals as per Rule APPROVED as fitted 2 3/4" Crank pin dia. 2 5/8" Crank Webs Mid. length breadth 4" Thickness parallel to axis Solid
Mid. length thickness 1 3/8" shrunk Thickness around eyehole

Flywheel Shaft, diameter as per Rule Intermediate Shafts, diameter as per Rule Thickness of cylinder liners .096"
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 NO Are the exhaust pipes and silencers water cooled or lagged with non-conducting material

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 GEAR TYPE. ABOUT 120 GALLS / HOUR

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 220 volts Full Load Current 159 Amperes Direct or Alternating Current DIRECT

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 YES

Generators, are they compounded as per rule YES 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 YES

If the generators are under 100 kw. full load rating, have the makers supplied certificates of test SENT TO GLASSOW 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 YES Receivers — Separate Tanks YES
(If not, state date of approval)

SPARE GEAR AS PER RULE REQUIREMENTS.

The foregoing is a correct description.
L. GARDNER & SONS LD.

William Gardner.

Manufacturer.

Director.



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Dates of Survey while building { During progress of work in shops - - } FEB. 9. 12. MARCH 5. 11. APRIL 9. 1937
 { During erection on board vessel - - - }
 Total No. of visits 5.

Dates of Examination of principal parts—Cylinders 9.12.2.37 Covers 5.3.1937 Pistons 5.3.1937 Piston rods —
 Connecting rods 11.3.37 Crank and Flywheel shaft 11.3.37 Intermediate shaft —
 Crank and Flywheel shafts, Material STEEL. Identification Mark LLOYDS. J.W.L. 736/2. 26.2.37.
 Intermediate shafts, Material — Identification Marks —
 Is this machinery duplicate of a previous case -/ES If so, state name of vessel BARCLAY CURLE Vessel 656.

General Remarks (State quality of workmanship, opinions as to class, &c.)

THIS ENGINE HAS BEEN CONSTRUCTED UNDER SPECIAL SURVEY OF TESTED MATERIALS AND IS IN ACCORDANCE WITH THE SECRETARY'S LETTERS, APPROVED PLANS AND RULE REQUIREMENTS. THE MATERIALS AND WORKMANSHIP ARE OF A GOOD QUALITY AND THE SET WHEN TESTED IN SHOP UNDER FULL LOAD CONDITIONS SHOWN SATISFACTORY RESULTS. IN MY OPINION THIS ENGINE IS SUITABLE TO BE PLACED ON BOARD A VESSEL, CLASSED WITH THIS SOCIETY, FOR THE PURPOSE INTENDED.

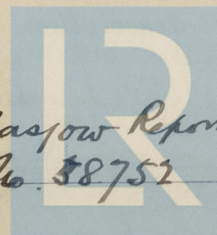
The amount of Fee ... £ 4 : 4 : 0 When applied for, 15.4.37 M.

Travelling Expenses (if any) £ — : — When received, 25/5/37 H. M.

Committee's Minute GLASGOW 31 AUG 1937

Assigned SEE ACCOMPANYING MACHINERY REPORT.

M. Monte.
 Surveyor to Lloyd's Register of Shipping.



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See Glasgow Report
 No. 38752