

REPORT ON OIL ENGINE ELECTRIC GENERATOR SETS

No. 58752
1027 (58702)

Date of writing Report 10 When handed in at Local Office 28. 8. 37 Port of GLASGOW Received at London Office

No. in Survey held at Reg. Book. 23973 on the Single Twin Triple Screw vessel M.V. 'Dumera' Date, First Survey 18. 8. 36 Last Survey 29-8-1937 Number of Visits 29

Built at Glasgow By whom built Barclay Curle & Co Ltd. Yard No. 663 When built 1934 Owners British India Steam Navigation Co. Ltd. Port belonging to London. Tons {Gross 11162 Net 6634

Oil Engines made at Glasgow By whom made British Auxiliaries Ltd. Contract No. 246/9 When made 1934 Generators made at Rugby By whom made British Thomson Houston Contract No. When made 1934

No. of Sets 4 Engine Brake Horse Power 330. Nom. Horse Power as per Rule 374 Total Capacity of Generators 880. Kilowatts.

OIL ENGINES, &c. Type of Engines Heavy oil (K44 I type) 2 or 4 stroke cycle 2 Single or double acting Single

Maximum pressure in cylinders 700 lb. M.P. 95. Diameter of cylinders 250 mm Length of stroke 420 mm No. of cylinders 4 No. of cranks 4

Span of bearings, adjacent to the Crank, measured from inner edge to inner edge 360 mm Is there a bearing between each crank Yes. Revolutions per minute 345. Flywheel dia. 1300 mm Weight 1.08 tons Means of ignition Comp. Kind of fuel used Diesel oil

Crank Shaft, dia. of journals as per Rule 155 mm as fitted 160 mm Crank pin dia. 160 mm Crank Webs Mid. length breadth 214 mm Mid. length thickness 90 mm Thickness parallel to axis shrunk Thickness around eyehole

Flywheel Shaft, diameter as per Rule 155 mm as fitted 160 mm Intermediate Shafts, diameter as per Rule as fitted Thickness of cylinder liners 19.5 mm

Is a governor or other arrangement fitted to prevent racing of the engine when declutched Yes. Means of lubrication Freed. Are the cylinders fitted with safety valves Yes. Are the exhaust pipes and silencers water cooled or lagged with non-conducting material Yes.

Cooling Water Pumps, No. - Is the sea suction provided with an efficient strainer which can be cleared within the vessel Yes. Lubricating Oil Pumps, No. and size 1 each Eng. 2230 galls/hr

Air Compressors, No. - No. of stages Diameters Stroke Driven by Scavenging Air Pumps, No. 1 each Eng. Diameter 580 mm Stroke 240 mm Driven by Eng. Brant & Co.

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 Cover

Is there a drain arrangement fitted at the lowest part of each receiver Yes. 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. 2 Total cubic capacity 7 Internal diameter 340 mm thickness 12.5 mm

Seamless, lap welded or riveted longitudinal joint Material 5 Range of tensile strength 28.37 tons Working pressure by Rules 985 lb actual 600

ELECTRIC GENERATORS: Type Hip Proof. Pressure of supply 220 volts. Load 1000 Amperes. Direct or Alternating Current Direct

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 Yes

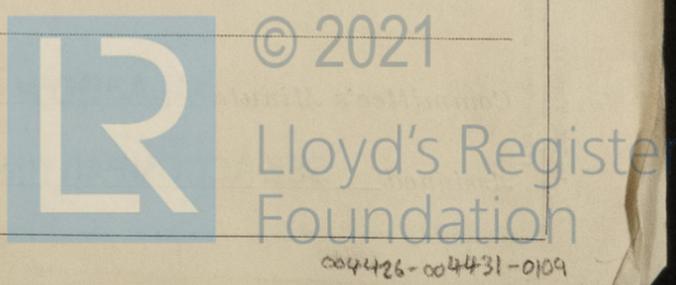
Generators, do they comply with the requirements regarding rating Yes are they compound wound Yes are they over compounded 5 per cent. Yes, if not compound wound state distance between each generator

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 5.2.35. Receivers 12.4.35. Separate Tanks

SPARE GEAR As per list attached.

The foregoing is a correct description,
BRITISH AUXILIARIES, LIMITED,
[Signature] Manufacturer.



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Dates of Survey while building
 During progress of work in shops - - - 1936 Aug: 18 Oct: 1, 8, 12, 30 Nov: 13, 17, 27 Dec: 7, 14, 28 (1937) Jan: 13, 14, 22, 29
 During erection on board vessel - - - Feb: 2, 5, 8, 11, 12, 15, 17, 19, 22, 26 Mar: 1, 5, 11 Aug: 24
 Total No. of visits 29

Dates of Examination of principal parts—Cylinders 19.2.34 Covers 19.2.34 Pistons 15.2.34 Piston rods —

Connecting rods Crank and Flywheel shaft 17.9.36 & 8.10.36 (FR) Intermediate shaft

Crank and Flywheel shaft, Material *1/2 In. High Steel* Identification Mark 9640/3-PK Intermediate shafts, Material — Identification Marks

Is this machinery duplicate of a previous case *yes*. If so, state name of vessel *M.V. Dilwar*

General Remarks (State quality of workmanship, opinions as to class, &c.)
These generators have been built under special survey and in accordance with the Rules. The materials and workmanship are good. They have been efficiently secured in position on board and afterwards this under full running condition with satisfactory results.

[Faint handwritten notes and bleed-through from the reverse side of the page are visible throughout this section.]

The amount of Fee ... £ 37 : 14 :
 Travelling Expenses (if any) £ : :
 When applied for, 23 AUG 1937
 When received, 13.10.37

Geo. Brown
 Surveyors to Lloyd's Register of Shipping

101, 7, 28—Transfer.
 (The Surveyors are requested not to write on or below the space for Committee's Minute.)

Committee's Minute **GLASGOW 31 AUG 1937**

Assigned SEE ACCOMPANYING MACHINERY REPORT

See Glasgow Report No. 58752

