

REPORT ON OIL ENGINE ELECTRIC GENERATOR SETS,

No. 58752

1937 (58702)

Date of writing Report

10

When handed in at Local Office

28. 8. 37 Port of

Received at London Office

GLASGOW

No. in Survey held at
Reg. Book.

Date, First Survey

18. 8. 36

Last Survey

29-8-1937

Number of Visits

29

23973 on the ^{Single}
^{Twin}
^{Triple}
^{Quadruple} Screw vessel

M.V. 'Dumera'

Tons

Gross 11162
Net 6634

Built at Glasgow

By whom built Barclay Curie & Co. Ltd.

Yard No. 663

When built 1934

Owners British India Steam Navigation Co. Ltd.

Port belonging to London.

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 377 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. Diameter of cylinders 250 in. Length of stroke 420 in. No. of cylinders 4 No. of cranks 4

Span of bearings, adjacent to the Crank, measured from inner edge to inner edge 360 in. Is there a bearing between each crank Yes.

Revolutions per minute 345. Flywheel dia. 1300 in. Weight 1.08 tons Means of ignition Comp. Kind of fuel used Diesel oil.

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

Flywheel Shaft, diameter as per Rule 155 in. as fitted 160 in. Intermediate Shafts, diameter as per Rule as fitted Thickness around eyehole

Is a governor or other arrangement fitted to prevent racing of the engine when declutched Yes. Means of lubrication Inced.

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 in. Stroke 240 in. Driven by Eng. Brankston

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 in. thickness 12.5 in.

Seamless, lap welded or riveted longitudinal joint Sealers Material 5 Range of tensile strength 28.31 tons Working pressure by Rules 985 lb. actual 600

ELECTRIC GENERATORS:—Type Dip 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,

Manufacturer.



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Lloyd's Register
Foundation

004426-004431-0109

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. forged steel Identification Mark 9640/3-PK Intermediate shafts, Material — Identification Marks —

Is this machinery duplicate of a previous case n/a. 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.

1m. 7.28—Transfer.
(The Surveyors are requested not to write on or below the space for Committee's Minute.)

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

Geo. Forman & Co. Surveyors to Lloyd's Register of Shipping.

Committee's Minute GLASGOW 31 AUG 1937
Assigned SEE ACCOMPANYING MACHINERY REPORT

See Glasgow Report No. 58752