

REPORT ON OIL ENGINE ELECTRIC GENERATOR SETS.

No. 105215

Date of writing Report 4-12-1937 When handed in at Local Office -6 DEC 1937 Port of Spennithorne
 No. in Survey held at Colchester Date, First Survey 14-11-37 Last Survey 26-11-1937
 Reg. Book. Single on the Twin Triple Quadruple Screw vessel M.V. WELSH COAST Tons { Gross 646 Net 244
 Built at Ardrossan By whom built Ardrossan Dockyard Ltd. Yard No. 368. When built 1937
 Owners Coast Lines Ltd Port belonging to Liverpool
 Oil Engines made at Colchester By whom made Davy, Paxman & Co. (Colchester) Ltd. Contract No. 948-9-50 When made 1937
 Generators made at Liverpool By whom made Campbell Isherwood Ltd. Contract No. 1518-9-20 When made 1937
 No. of Sets 3 Engine Brake Horse Power 66 Nom. Horse Power as per Rule 19. Total Capacity of Generators 40 Kilowatts.

OIL ENGINES, &c.—Type of Engines Heavy Oil 2 or 4 stroke cycle 4 Single or double acting single
 Maximum pressure in cylinders 700 lb. sq. in. Diameter of cylinders 4 5/8" Length of stroke 5 7/8" No. of cylinders 6 No. of cranks 6
 Span of bearings, adjacent to the Crank, measured from inner edge to inner edge 5 1/8" Is there a bearing between each crank In
 Revolutions per minute 1000 Flywheel dia. 24" Weight 294 lb. Means of ignition Compression Kind of fuel used diesel
 Crank Shaft, dia. of journals as per Rule 3 1/8" Crank pin dia. 2 7/8" Crank Webs Mid. length breadth 1 3/8" Thickness parallel to axis shrunk
as fitted 3 1/8" Mid. length thickness 3 3/4" Thickness around eyehole shrunk
 Flywheel Shaft, diameter as per Rule 3 1/8" Intermediate Shafts, diameter as per Rule 3 1/8" Thickness of cylinder liners 1/8"
as fitted 3 1/8" as fitted 3 1/8"
 Is a governor or other arrangement fitted to prevent racing of the engine when decoupled In Means of lubrication Forced
 Are the cylinders fitted with safety valves In Are the exhaust pipes and silencers water cooled or lagged with non-conducting material In
 Cooling Water Pumps, No. One Is the sea suction provided with an efficient strainer which can be cleared within the vessel In
 Lubricating Oil Pumps, No. and size One geared 3/4" suction & delivery
 Air Compressors, No. One No. of stages One Diameters 3/4" Stroke 12" Driven by Electric
 Scavenging Air Pumps, No. One Diameter 3/4" Stroke 12" Driven by Electric

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 In What means are provided for cleaning their inner surfaces In

Is there a drain arrangement fitted at the lowest part of each receiver In

High Pressure Air Receivers, No. One Cubic capacity of each 100 cu. ft. Internal diameter 12" thickness 1/2"
 Seamless, lap welded or riveted longitudinal joint In Material Steel Range of tensile strength 40,000 lb. sq. in. Working pressure by Rules 100 lb. sq. in.
 Starting Air Receivers, No. One Total cubic capacity 100 cu. ft. Internal diameter 12" thickness 1/2"
 Seamless, lap welded or riveted longitudinal joint In Material Steel Range of tensile strength 40,000 lb. sq. in. Working pressure by Rules 100 lb. sq. in.

ELECTRIC GENERATORS:—Type Drip Proof

Pressure of supply 220 volts. Load 182 Amperes. Direct or Alternating Current Direct

If alternating current system, state frequency of periods per second 50

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

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

are they over compounded 5 per cent. In, if not compound wound state distance between each generator 12"

is an adjustable regulating resistance fitted in series with each shunt field In Are all terminals accessible, clearly marked, and furnished with sockets In

are they so spaced or shielded that they cannot be accidentally earthed, short circuited, or touched In Are the lubricating arrangements of the generators as per Rule In

PLANS. Are approved plans forwarded herewith for Shafting 15-12-36 Receivers In Separate Tanks In
 (If not, state date of approval)

SPARE GEAR

The foregoing is a correct description,

DAVEY, PAXMAN & CO. ENGINEERS

Shirley Stork Manufacturer.



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Lloyd's Register
Foundation

005367-005376-0123

Dates of Survey while building { During progress of work in shops - - 3-3-37, 14-4-37, 22-4-37, 27-4-37, 29-4-37, 21-5-37, 31-5-37, 3-10-37, 12-11-37, 26-11-37.
During erection on board vessel - - -
Total No. of visits 8

Dates of Examination of principal parts—Cylinders 14-4-37, 2-5-37, 3-10-37. Covers 29-4-37, 14-4-37. Pistons 3-10-37. Piston rods

Connecting rods 3-10-37. Crank and Flywheel shaft 22-4-37. Intermediate shaft

Crank and Flywheel shafts, Material Steel. Identification Mark 440705 { N° 7562 MAB. 31-3-37.
N° 7561 " 31-3-37.
N° 7401 " 12-3-37.

Intermediate shafts, Material Identification Marks

Is this machinery duplicate of a previous case Yes. If so, state name of vessel

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

The engines have been constructed under Special Survey in accordance with the approved plans & Rule requirements. The materials & workmanship are sound & of good description. The engines have been tested under full load & overload conditions. The governors tested & found satisfactory and are to be dispatched to Ardrossan to be fitted into a Classed vessel.

Sy. 20.

The amount of Fee ... £ 15 : 15 : When applied for, -6 DEC 1937
Travelling Expenses (if any) £ 1 : 3 : 6 When received, 3/2/38

Sy. 20.
Surveyor to Lloyd's Register of Shipping.

Committee's Minute GLASGOW 1 FEB 1938
Assigned SEE ACCOMPANYING MACHINERY REPORT.