

REPORT ON OIL ENGINE ELECTRIC GENERATOR SETS.

No. 105268

Date of writing Report 14-12-1937 When handed in at Local Office 20 DEC 1937 Received at London Office 20 DEC 1937
 No. in Survey held at Colchester Port of Ipswich
 Reg. Book. Date, First Survey 21-6-37 Last Survey 8-12-1937
 Number of Visits 3x
 on the Single
 Twin
 Triple
 Quadruple } Screw vessel
 Built at By whom built Harland & Wolff, Ltd. Yard No. 1002 When built 1937
 Owners Port belonging to
 Oil Engines made at Colchester By whom made Davy, Paxman & Co. (Colchester) Ltd. Contract No. 926. When made 1937
 Generators made at Sunderland By whom made Sunderland Forge Co. Ltd. Contract No. F. 4639. When made 1937
 No. of Sets one Engine Brake Horse Power 30/35 Nom. Horse Power as per Rule 10 Total Capacity of Generators 20 Kilowatts.

OIL ENGINES, &c.—Type of Engines Heavy Oil 2 or 4 stroke cycle 4 Single or double acting single
 Maximum pressure in cylinders 750 lb. Diameter of cylinders 4 5/8" Length of stroke 5 7/8" No. of cylinders 3 No. of cranks 3
 M.P. 120 lb.
 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 290 lb. Means of ignition Compression Kind of fuel used Diesel
 Crank Shaft, dia. of journals as per Rule 3 1/8" app. Crank pin dia. 2 7/8" Crank Webs Mid. length breadth 4 1/2" Thickness parallel to axis
 as fitted 3 1/8" Mid. length thickness 1 3/8" shrank Thickness around eyehole
 Flywheel Shaft, diameter as per Rule 3 1/8" app. Intermediate Shafts, diameter as per Rule Thickness of cylinder liners 1/8"
 as fitted 3 1/8"
 Is a governor or other arrangement fitted to prevent racing of the engine when declutched 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
 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 9/8" suction & delivery
 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 Enclosed unattended, drip proof.
 Pressure of supply 220 volts. Load 91. 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 In
 Generators, do they comply with the requirements regarding rating are they compound wound
 are they over compounded 5 per cent. if not compound wound state distance between each generator
 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 In

PLANS. Are approved plans forwarded herewith for Shafting 3-2-37. Receivers. Separate Tanks.

SPARE GEAR

The foregoing is a correct description,

DAVEY, PAXMAN & CO. (Colchester) Limited

Manufacturer.



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Dates of Survey while building { During progress of work in shops - - } 21-6-37, 23-6-37, 8-7-37, 16-8-37, 2-11-37, 5-12-37
{ During erection on board vessel - - - }
Total No. of visits 5/8.

Dates of Examination of principal parts—Cylinders 23-6-37 Covers 16-8-37 Pistons 8-7-37 Piston rods ✓

Connecting rods 8-7-37 Crank and Flywheel shaft 21-6-37 Intermediate shaft ✓

Crank and Flywheel shafts, Material Stül Identification Mark LLOYDS N° 6730 MAR 19-3-37.

Intermediate shafts, Material Identification Marks ✓

Is this machinery duplicate of a previous case In If so, state name of vessel Harland & Wolff h° 1001.

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

The engine has been constructed under Special Survey in accordance with the Rule Requirements.

The materials and workmanship are good.

The engine has been tested under full load condition, the Governor has been tested & found Satisfactory.

The Engine has been dispatched to be fitted into a classed vessel.

This engine has been efficiently installed & fastened to a seat in the engine room & tested out under full working conditions with satisfactory results.

25-2-38 Charles J. Hunter
Belfast 15/2/38

The amount of Fee ... £ 5-5- : When applied for, 20 DEC 1837

Travelling Expenses (if any) £ : 8/6- : When received, 714/38

Committee's Minute

FRI. 25 FEB 1938

Assigned

Sec Bel. J.E. 12093

Surveyor to Lloyd's Register of Shipping.



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