

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 Port of Ipswich Received at London Office 20 DEC 1937

No. in Survey held at Colchester Date, First Survey 21-6-37 Last Survey 8-12-1937
Reg. Book. Single on the Twin Triple Quadruple Screw vessel Six Number of Visits

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. M.P. 120 lb. Diameter of cylinders 4 5/8 " Length of stroke 5 7/8 " No. of cylinders 3 No. of cranks 3
Span of bearings, adjacent to the Crank, measured from inner edge to inner edge 5 1/8 " Is there a bearing between each crank No

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 " 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 No 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 geared 5/8" 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 No
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 No
PLANS. Are approved plans forwarded herewith for Shafting 3-2-37. Receivers ✓ Separate Tanks ✓
(If not, state date of approval)

SPARE GEAR

The foregoing is a correct description,
for and on behalf of
DAVEY, PAXMAN & CO. (Colchester) Limited
Henry J. J. J. Manufacturer.



W. 1187-0132

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 *LL07DS. 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's 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

Chas. J. Hunter
Belfast
15/2/38

1m, 6.31—Transfer. (The Surveyor's signature requested not to write on or below the space for Committee Minute.)

The amount of Fee ... £ 5-5- : When applied for, 20 DEC 1887

Travelling Expenses (if any) £ : 8/6- : When received, 714 192

Chas. J. Hunter
 Surveyor to Lloyd's Register of Shipping.

Committee's Minute FRI. 25 FEB 1888

Assigned *See Bel. J.E. 1209D*



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