

REPORT ON OIL ENGINE ELECTRIC GENERATOR SETS.

No. 14389

Date of writing Report _____ When handed in at Local Office 10/6/47 Port of Belfast Received at London Office 14 JUN 1947

No. in Survey held at Belfast Date, First Survey visits included in 2.2.47 Last Survey 19

Reg. Book. _____ Number of Visits _____

on the Single Screw vessel M/V "LOCH GARTH" Tons { Gross _____ Net _____

Built at Belfast By whom built Messrs Harland & Wolff Ltd Yard No. 1328 When built 1947

Owners Messrs Royal Mail Lines Ltd Port belonging to London

Oil Engines made at Belfast By whom made Messrs Harland & Wolff Ltd Contract No. 1328 When made 1947

Generators made at Belfast By whom made Messrs Harland & Wolff Ltd Contract No. 1328 When made 1947

No. of Sets 2 Engine Brake Horse Power 870 (Metric) Nom. Horse Power as per Rule 217.5 Total Capacity of Generators 600 Kilowatts.

OIL ENGINES, &c.—Type of Engines Heavy oil - Trunk Piston 2 or 4 stroke cycle 4 Single or double acting Single

Maximum pressure in cylinders 700 lbs/sq Diameter of cylinders 316 mm Length of stroke 420 mm No. of cylinders 6 No. of cranks 6

Span of bearings, adjacent to the Crank, measured from inner edge to inner edge 370 mm 380 Is there a bearing between each crank Yes

Revolutions per minute 420 Flywheel dia. 1500 mm Weight 2448 Kgs Means of ignition Compression Kind of fuel used Diesel Oil

Crank Shaft, dia. of journals as per Rule 250 mm Crank pin dia. 210 mm Crank Webs Mid. length breadth 275 mm Thickness parallel to axis _____
as fitted _____ Mid. length thickness 100 mm Thickness around eyehole _____

Flywheel Shaft, diameter as per Rule as fitted Intermediate Shafts, diameter _____ Thickness of cylinder liners 26 mm

Is a governor or other arrangement fitted to prevent racing of the engine when disconnected Yes Means of lubrication Forced

Are the cylinders fitted with safety valves Yes Are the exhaust pipes and silencers water cooled or lagged with non-conducting material Lagged

Cooling Water Pumps, No. As per U.S. Report Is the sea suction provided with an efficient strainer which can be cleared within the vessel Yes

Lubricating Oil Pumps, No. and size One driven off each engine 9.2 tons/hr @ 400 RPM

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 Yes What means are provided for cleaning their inner surfaces man hole fitted

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 100 cub. ft Internal diameter 2'-10 1/8" thickness 1 1/2"

Seamless, lap welded or riveted longitudinal joint Fusion welded Material M. Steel Range of tensile strength 29/33 tons Working pressure by Rules 356 lbs/sq

ELECTRIC GENERATORS:—Type Drip-proof

Pressure of supply 225 volts. Load 1334 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 24.5.46 Receivers 4.5.46 Separate Tanks 6.11.46
(If not, state date of approval)

SPARE GEAR Please see attached list.

The foregoing is a correct description, and the particulars of the installation as fitted on 2021 ✓
Approved for installation characteristics
FOR HARLAND AND WOLFF, LIMITED. Manufacturer.
Secretary

Lloyd's Register Foundation

014325-014334-0138

Dates of Survey while building
 { During progress of work in shops - - }
 { During erection on board vessel - - - }
 Total No. of visits

Dates of Examination of principal parts—Cylinders 26.8.46 6.9.46 Covers 26.7.46/4.9.46 24.8.46/3.10.46 Pistons 21.9.46 7.9.46 Piston rods -
 Connecting rods 1.8.46 & 3.8.46 Crank and Flywheel shaft 26.8.46 & 13.9.46 Intermediate shaft -
 Crank and Flywheel shafts, Material M. Steel 28/32 T. Identification Mark No 1 LLOYDS J2763 G57 No 2 LLOYDS J2763 G57
 Intermediate shafts, Material - Identification Marks -

Is this machinery duplicate of a previous case? 2. If so, state name of vessel

General Remarks (State quality of workmanship, opinions as to class, &c.) These engines and electric generators have been constructed under Special Survey in accordance with the Rules and approved plans. The materials and workmanship are good. On completion these generating sets have been examined under full working conditions on the test bed (3 hours @ 100% followed by 1 hour @ 10% %) and found satisfactory.

Torsional vibration characteristic approved in London letter dated 24.5.46

These generating sets have been efficiently installed onboard the vessel and subsequently examined again under full working conditions with satisfactory results.

IDENTIFICATION MARKS ON AIR RECEIVERS: (CERTIFICATE No 21742)

2 off BOTH STAMPED No 361 LLOYDS TEST 584 lbs HP356 4P. J.M.A 8.10.46.

The amount of Fee See Rpt. 4a. £ : : When applied for, 19
 Travelling Expenses (if any) £ : : When received, 19

Wm. G. Home & E. Grievel Surveyors to Lloyd's Register of Shipping.

Committee's Minute FRI. 18 JUL 1947 Assigned See F.E. mch. rpt.



Im. 28 - Transfer. (The Surveyors are requested not to write on or below the space for Committee Minutes.)