

REPORT ON OIL ENGINE ELECTRIC GENERATOR SETS.

No. 71815

JUN 1947

Received at London Office

Date of writing Report 9-6-47 When handed in at Local Office GLASSGOW Port of GLASSGOW
 No. in Survey held at GLASSGOW Date, First Survey 29th October, 46 Last Survey 4.6.1947
 Reg. Book. 87883 Number of Visits 96
 on the Single Screw vessel M.V. "LA HAGUE" Tons { Gross 4039 Net 2224
 Built at GLASSGOW By whom built HARLAND & WOLFF LTD. Yard No. 1343 When built 1947
 Owners FRENCH GOVERNMENT, MINISTERE DE LA MARINE MERCHANT Port belonging to NANTES
 Oil Engines made at GLASGOW By whom made HARLAND & WOLFF LTD. Contract No. 1343-1 When made 1947
 Generators made at BELFAST By whom made HARLAND & WOLFF LTD. Contract No. { 7968 } When made 1947
 No. of Sets 3 Engine Brake Horse Power 975 TOTAL Nom. Horse Power as per Rule 244 Total Capacity of Generators 675 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 lbs/sq. in. Diameter of cylinders 316 m/m Length of stroke 380 m/m No. of cylinders 5 each engine No. of cranks 5
 M.I.P. 100 Span of bearings, adjacent to the Crank, measured from inner edge to inner edge 370 m/m Is there a bearing between each crank Yes
 Revolutions per minute 420 Flywheel dia. 1500 m/m Weight 2448 kgs Means of ignition Compression Kind of fuel used Diesel
 Crank Shaft, dia. of journals as per Rule as approved Crank pin dia. 210 m/m Crank Webs Mid. length breadth 270 m/m Thickness parallel to axis -
 as fitted 250 m/m Mid. length thickness 100 m/m Thickness around eyehole -
 Flywheel Shaft, diameter as per Rule - Intermediate Shafts, diameter as per Rule - Thickness of cylinder liners 26 m/m
 as fitted - as fitted - Thickness of cylinder liners 26 m/m
 Is a governor or other arrangement fitted to prevent racing of the engine when de-latched Yes Means of lubrication Forced
 Are the cylinders fitted with safety valves Yes Are the exhaust pipes and silencers lagged with non-conducting material Yes
 Cooling Water Pumps, No. None fitted 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 engine 7.7 tons per hour.
 Air Compressors, No. None No. of stages - Diameters - Stroke - Driven by -
 Scavenging Air Pumps, No. None Diameter - Stroke - Driven by -

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 Removal of loose head
 Is there a drain arrangement fitted at the lowest part of each receiver Yes
 High Pressure Air Receivers, No. None 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. One Total cubic capacity 180 litres Internal diameter 17 1/2" thickness 3/8"
 Seamless, lap welded or riveted longitudinal joint welded Material Steel Range of tensile strength 28-32 tons Working pressure by Rules as approved

ELECTRIC GENERATORS:—Type Open type drip proof
 Pressure of supply 220 volts. Load 1014 Amperes. Direct or Alternating Current D.C.
 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 -

PLANS. Are approved plans forwarded herewith for Shafting 8.7.43 Receivers Approved Belfast Separate Tanks -
 (If not, state date of approval) 7.5.46.

SPARE GEAR as per list to be forwarded with Main engine spare gear.

Air Receiver Marked No. 356 Lloyd's test 584 lbs. W.P. 356 lbs. J.McA. 23.8.46.

Torsional vibration characteristics approved See Glasgow letter 16.4.46. 6/5/46 for a series of 9 420 rpm.

The foregoing is a correct description, and the particulars of the installation as fitted are as approved for torsional vibration characteristics.
 Wm. J. Wright. Manufacturer.
 Lloyd's Register Foundation

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

See attached machinery report 46

Dates of Examination of principal parts—Cylinders 21.8.46, 2.9.46, 2.10.46. Covers 9.9.46, 10.9.46, 9-10.46. Pistons 5.8.46, 9.10.46. Piston rods -

Connecting rods 5.9.46, 10.9.46, 9.10.46. Crank and Flywheel shaft 22.8.46, 26.8.46, 5.9.46. Intermediate shaft -

Crank and Flywheel shafts, Material **Steel** Identification Mark " " Lloyd's No. 15494 1872 22.8.46 G. EM. 15590 1873 26.8.46 " 1874 5.9.46 "

Intermediate shafts, Material - Identification Marks -

Is this machinery duplicate of a previous case **No** If so, state name of vessel

General Remarks (State quality of workmanship, opinions as to class, &c. **These auxiliary engines have been built under**)

Special Survey in accordance with the Rules and approved plans.

The materials and workmanship are good. On completion they have been tried on the bench at full load with satisfactory results. They have been efficiently secured in position on board the vessel, examined under full working condition and found satisfactory.

Note: Torsional vibration characteristics. Notice No.1803 See Glasgow letter 16.4.46.

Im. 8. 28 - Transfer. (The Surveyors are requested not to write on or below the space for Committee Minute.)

The amount of Fee ... £ 36 : 12 0 } When applied for, 10 JUN 1947
 Travelling Expenses (if any) £ : : } When received, 19.....

G. E. Murdoch & N. Russell
 Surveyors to Lloyd's Register of Shipping.

Committee's Minute **GLASGOW 10 JUN 1947**

Assigned **SEE ACCOMPANYING MACHINERY REPORT.**

