

REPORT ON OIL ENGINE ELECTRIC GENERATOR SETS.

No. 72091

Received at London Office

24 SEP 1947

Date of writing Report

10

When handed in at Local Office

19-9-47 Port of

GLASGOW

No. in Survey held at
Reg. Book.

GLASGOW

Date, First Survey

29.10.45

Last Survey

17-9-1947

Number of Visits

117

27888 on the ^{Single}
^{Twin}
^{Triple}
^{Quadruple} Screw vessel

MOTOR VESSEL "LA HEVE"

Tons { Gross 4027
Net 2224

Built at GLASGOW

By whom built HARLAND & WOLFF LTD.

Yard No. 1345 When built 1947

Owners THE FRENCH GOVERNMENT, MINISTERE DE LA MARINE MARCHANDE Port belonging to NANTES

Oil Engines made at GLASGOW

By whom made HARLAND & WOLFF LTD.

Contract No. 1345

When made 1947

Generators made at BELFAST

By whom made HARLAND & WOLFF LTD.

Contract No.

When made

No. of Sets 3 Engine Brake Horse Power 975 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 lb/sq in M.I.P. 100 lb/sq in Diameter of cylinders 316 7/8 Length of stroke 380 7/8 No. of cylinders 5 No. of cranks 5

Span of bearings, adjacent to the Crank, measured from inner edge to inner edge 370 7/8 Is there a bearing between each crank Yes

Revolutions per minute 420 Flywheel dia. 1500 7/8 Weight 2448 Kgs. Means of ignition Comp. Kind of fuel used Diesel

Crank Shaft, dia. of journals as per Rule 230 7/8 as fitted 230 7/8 Crank pin dia. 210 7/8 Crank Webs Mid. length breadth 270 7/8 Mid. length thickness 100 7/8 Thickness parallel to axis Thickness around eyehole

Flywheel Shaft, diameter as per Rule as fitted Intermediate Shafts, diameter as per Rule as fitted Thickness of cylinder liners 26 7/8

Is a governor or other arrangement fitted to prevent racing of the engine when decelerated 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 Yes

Cooling Water Pumps, No. None Is the sea suction provided with an efficient strainer which can be cleared within the vessel

Lubricating Oil Pumps, No. and size 1 @ 7.7 tons/hr on each engine

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 1/4 thickness 3/8

Seamless, lap welded or riveted longitudinal joint Welded Material Steel Range of tensile strength 28/32 tons Working pressure by Rules app.

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 7-5-46 Receivers App. Belfast Separate Tanks

SPARE GEAR As per Rule Requirements. List Attached.

The foregoing is a correct description and the particulars of the installation as fitted are as approved for torsional vibration characteristics.

The foregoing is a correct description,
For HARLAND AND WOLFF, LIMITED

Wm. J. Wright.

Manufacturer.

Foundation Secretary



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Lloyd's Register
Foundation

006A03-006911-0274

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

See attached machinery report.

Dates of Examination of principal parts—Cylinders 6-2-47 31-1-47
24-3-47 To
1-4-47 Covers 17-4-47 Pistons Piston rods

Connecting rods 10-3-47, 14-3-47, 17-3-47. Crank and Flywheel shaft 7-12-46, 13-1-47, 10-3-47 Intermediate shaft

Crank and Flywheel shafts, Material

Steel

Identification Mark N.Y. 12-46 N.K. 13-1-47 N.K. 10-3-47

Intermediate shafts, Material

Identification Marks

Is this machinery duplicate of a previous case Yes If so, state name of vessel M/V MORBIHAN G.L.S. RPT. N° 71892

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 were tested on shop test bench at full load with satisfactory results, and have now been efficiently secured in position on board the vessel, examined under full working conditions and found satisfactory

Note:- The torsional vibration characteristics are in accordance with London Letter dated 6-5-46

The amount of Fee ... £ 36 : 12 : 23 SEP 1947

Travelling Expenses (if any) £

When received, 19

N. Vissell

Surveyor to Lloyd's Register of Shipping.

Committee's Minute

GLASGOW

23 SEP 1947

Assigned

SEE ACCOMPANYING MACHINERY REPORT



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