

REPORT ON ELECTRICAL EQUIPMENT.

(OTHER THAN FOR THE PROPULSION OF THE VESSEL)

24 SEP 1947

Date of writing Report... 4th Sept. 1947 When handed in at Local Office... 22.9.1947 Port of... GlasgowNo. in Survey held at... Glasgow Date, First Survey... 4.3.47 Last Survey... 16 Sept. 1947
Reg. Book.

27888 on the M. V. "LA HEVE" Tons { Gross... 4027 Net... 2224

Built at... Glasgow By whom built... Harland & Wolff Ltd Yard No. 1345 G When built... 1947
Owners... Cie Générale d'Armement Maritimes Port belonging to... Nantes French

Electrical Installation fitted by... Harland & Wolff Ltd Contract No. 1345 G When fitted... 1947

Is vessel fitted for carrying Petroleum in bulk... No Is vessel equipped with D.F. Wiring... Yes E.S.D. only... Yes Gy.C. Sub.Sig. No

Have plans been submitted and approved... Yes System of Distribution... two wire Voltage of supply for Lighting... 220

Heating... 220 Power... 220 Direct or Alternating Current, Lighting... D.C. Power... D.C. If Alternating Current state periodicity... Prime Movers,

has the governing been tested and found as per Rule when full load is suddenly thrown on and off... Yes Are turbine emergency governors fitted with a

trip switch as per Rule... Generators, are they compound wound... Yes, are they level compounded under working conditions... Yes

if not compound wound state distance between generators... and from switchboard... Where more than one generator is fitted are they

arranged to run in parallel... Yes, are shunt field regulators provided... Yes Is the compound winding connected to the negative or positive pole

negative... Have machines over 100 kw. been inspected by the Surveyors during manufacture and testing... Yes Have certificates of

test for machines under 100 kw. been supplied... Yes and the results found as per rule... Yes Are the lubricating arrangements and the construction

of the generators as per rule... Yes Position of Generators... in engine room

is the ventilation in way of generators satisfactory... Yes are they clear of inflammable material... Yes, if situated

near unprotected combustible material state distance from same horizontally... and vertically... are the generators protected from mechanical

injury and damage from water, steam and oil... Yes, are the bedplates and frames earthed... Yes and the prime movers and generators in metallic

contact... Yes Switchboards, where are main switchboards placed... near generators

are they in accessible positions, free from inflammable gases and acid fumes... Yes, are they protected from mechanical injury and damage from water, steam

and oil... Yes, if situated near unprotected combustible material state distance from same horizontally... and vertically... what insulation

material is used for the panels... Sindanyo if of synthetic insulating material is it an Approved Type... Yes, if of

semi-insulating material (slate or marble) are all conducting parts insulated therefrom as per Rule... Is the frame effectually earthed... Yes

Is the construction as per Rule... Yes, including accessibility of parts... Yes, absence of fuses on the back of the board... Yes, individual fuses

to pilot and earth lamps, voltmeters, etc... Yes, locking of screws and nuts... Yes, labelling of apparatus and fuses... Yes, fuses on the "dead"

side of switches... Description of Main Switchgear for each generator and arrangement of equaliser switches... Triple pole circuit

breakers fitted with O/L and R/C trips also preference tripping for non-essential

circuits

and for each outgoing circuit... Double pole circuit breaker or double pole switch and fuses

Are compartments containing switchboards composed of fire-resisting material or lined as per Rule... Yes Instruments on main switchboard... 16

ammeters... 2 voltmeters... synchronising devices. For compound machines in parallel is the ammeter connected on the pole opposite to the

equaliser connection... Yes Earth Testing, state means provided... earth lamps.

Switches, Circuit Breakers and Fuses, are they as per Rule... Yes, are the fuses an approved type... Yes, are all fuses labelled as

per Rule... Yes If circuit breakers are provided for the generators, at what overload current did they open when tested... Full load, are the reversed current

protection devices connected on the pole opposite to the equaliser connection... Yes, have they been tested under working conditions, and at what current

did they operate... 15% Full Load Joint Boxes, Section Boards and Distribution Boards, is the construction and position as per Rule... Yes

Cables, are they insulated and protected as per the appropriate Tables of the Rules... Yes, if otherwise than as per Rule are they of an approved type... Yes

state maximum fall of pressure between bus bars and any point under maximum load... 6.5 volts, are the ends of all cables having a sectional area of 0.04

square inch and above provided with soldering sockets... Yes Are paper insulated and varnished cambric insulated cables sealed at the ends... Yes

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The Electrical Equipment is installed in accordance with the approved plans and the requirements of the Rules.

All Insulated Conductors are guaranteed to have been tested at the maker's works as specified in the Rules.

The foregoing is a correct description.

For HARLAND AND WOLFF, LIMITED,

Govan Secretary.

Electrical Engineers.

Date

COMPASSES.

Minimum distance between electric generators or motors and standard compass

7 feet (W/T. M-G set.)

Minimum distance between electric generators or motors and steering compass

12 feet (W/T. M-G set.)

The nearest cables to the compasses are as follows:—

A cable carrying 1 Ampères led into standard compass led into steering compass.

A cable carrying 15 Ampères 4 feet from standard compass 10 feet from steering compass.

A cable carrying Ampères feet from standard compass feet from steering compass.

Have the compasses been adjusted with and without the electric installation at work at full power Yes

Has the effect of switching on and off circuits, motors and other electro-magnetic apparatus within the vicinity of the compasses been noted Yes

The maximum deviation due to electric currents was found to be nil degrees on any course in the case of the standard compass, and nil degrees on any course in the case of the steering compass.

For HARLAND AND WOLFF, LIMITED,

Builder's Signature.

Date

Is this installation a duplicate of a previous case.

Yes

If so, state name of vessel

M.V. "MORBIHAN"

Plans. Are approved plans forwarded herewith.

No

If not, state date of approval

11.11.46

Certificates. Are certificates of test for motors engaged on essential services and generators forwarded herewith

Yes

General Remarks (State quality of workmanship, whether insulation tests, etc., have been made, opinions as to class, etc.)

The electrical equipment of this vessel has been fitted on board under Special Survey tested under full working conditions and found satisfactory. The materials and workmanship are good.

Total Capacity of Generators

685 Kilowatts.

45 Glasgow £61.14.0

The amount of Fee ...

£ 77.2.6

45 Belfast £15.3.6

Travelling Expenses (if any) £

When applied for,

23 SEP 1947

When received,

19.11.47

Surveyor to Lloyd's Register of Shipping.

Committee's Minute

SEE ACCOMPANYING MACHINERY REPORT.

Assigned



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