

REPORT ON ELECTRICAL EQUIPMENT.

(OTHER THAN FOR THE PROPULSION OF THE VESSEL)

Received at London Office.....

Date of writing Report... 5th June 1943 When handed in at Local Office..... 19..... Port of... Liverpool

No. in Survey held at... Liverpool Date, First Survey... Dec 8th/43 Last Survey... June 3rd 1943
Reg. Book. (Number of Visits..... 5)

on the... S.S. "EMPIRE BILLOW" Tons { Gross... 215
Net... 74

Built at... Liverpool By whom built... W. J. Yaswood & Son Ltd. Yard No... 718 When built... 1943

Owners... M. O. W. T. Port belonging to.....

Electrical Installation fitted by... W. J. Yaswood & Son Ltd. Contract No... 718 When fitted... 1943

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

Have plans been submitted and approved... Yes System of Distribution... Two wire Voltage of supply for Lighting... 110

Heating... Power... Direct or Alternating Current, Lighting... AC Power... 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... 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... 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... In Engine Room. adjacent to 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... Sialdango 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... Yes Description of Main Switchgear for each generator and arrangement of equaliser switches... Double pole switch

and fuses.

and for each outgoing circuit... DP switch fuses.

Are compartments containing switchboards composed of fire-resisting material or lined as per Rule... Instruments on main switchboard... 1

ammeters... 1 voltmeters... synchronising devices. For compound machines in parallel is the ammeter connected on the pole opposite to the

equaliser connection... 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... are the reversed current

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

did they operate... 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...

state maximum fall of pressure between bus bars and any point under maximum load... 2 1/2 volts are the ends of all cables having a sectional area of 0.04

square inch and above provided with soldering sockets... All are in the 1040 Are paper insulated and varnished cambric insulated cables sealed at the ends.

and found satisfactory $\frac{1}{3}$.

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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.

W. J. YARWOOD & SONS (1938) LTD.

Albert Yarwood
Managing Director

Electrical Engineers.

Date 8/6/43

COMPASSES.

Minimum distance between electric generators or motors and standard compass.....

Minimum distance between electric generators or motors and steering compass.....

36 ft.

The nearest cables to the compasses are as follows:—

A cable carrying 2 Ampères feet from standard compass 4 feet from steering compass.

A cable carrying 0.2 Ampères feet from standard compass 6 in. 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 degrees on course in the case of the standard compass, and 1/2 degrees on any course in the case of the steering compass.

W. J. YARWOOD & SONS (1938) LTD.

Albert Yarwood

Builder's Signature.

Date 15/6/43

Managing Director,

Is this installation a duplicate of a previous case No.

If so, state name of vessel

Plans. Are approved plans forwarded herewith Yes

If not, state date of approval

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 in accordance with the Rules and specification. The installation has been tested under full working conditions and found satisfactory. The materials and workmanship are good.

Noted

J. G.

13/7/43.

Total Capacity of Generators 3 Kilowatts.

The amount of Fee ... £ 6 : 5 : 0 : 30 JUN 1943
Travelling Expenses (if any) £ : :
When applied for, When received.

L. Haffner.

Surveyor to Lloyd's Register of Shipping.

Committee's Minute LIVERPOOL

Assigned See Minute on Liverpool H. Machinery Report.



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