

REPORT ON ELECTRICAL EQUIPMENT.

(OTHER THAN FOR THE PROPULSION OF THE VESSEL)

11 MAR 1943

Date of writing Report... 25th Feb. 43... When handed in at Local Office... 9. 3. 43... Port of... GLASGOW... Received at London Office...

No. in Survey held at... GLASGOW... Date, First Survey... (1942) Nov. 30... Last Survey... 23rd February 1943... Reg. Book... 86848... on the... M.V. "EMPIRE COURAGE" NOW NAMED "PHILIPS WOUWERMAN" (Number of Visits 13) Tons { Gross... Net...

Built at... GLASGOW... By whom built... BARCLAY, CURLE & CO. LTD... Yard No... 689... Owners... MINISTRY OF SHIPPING... When built... 1943... Port belonging to... GLASGOW...

Electrical Installation fitted by... H.M. SPEIRS & CO... Contract No... 689... When fitted... 1943...

Is vessel fitted for carrying Petroleum in bulk... Is vessel equipped with D.F. ☒ E.S.D. ☒ Gy.C. ☐ Sub.Sig. ☐

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

Heating... Power... 110... 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 ☒ Are turbine emergency governors fitted with a trip switch as per Rule... ☐

Generators, are they compound wound ☒ are they level compounded under working conditions ☒ 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 ☒ 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 ☒ and the results found as per rule ☒ Are the lubricating arrangements and the construction of the generators as per rule ☒ Position of Generators... in engine room...

is the ventilation in way of generators satisfactory ☒ are they clear of inflammable material ☒ 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 ☒ are the bedplates and frames earthed ☒ and the prime movers and generators in metallic contact ☒ Switchboards, where are main switchboards placed... near generators...

are they in accessible positions, free from inflammable gases and acid fumes ☒ are they protected from mechanical injury and damage from water, steam and oil ☒ if situated near unprotected combustible material state distance from same horizontally... and vertically... what insulation material is used for the panels... Sindano... if of synthetic insulating material is it an Approved Type ☒ if of semi-insulating material (slate or marble) are all conducting parts insulated therefrom as per Rule... Is the frame effectually earthed ☒

Is the construction as per Rule ☒ including accessibility of parts ☒ absence of fuses on the back of the board ☒ individual fuses to pilot and earth lamps, voltmeters, etc., ☒ locking of screws and nuts ☒ labelling of apparatus and fuses ☒ fuses on the "dead" side of switches ☒

Description of Main Switchgear for each generator and arrangement of equaliser switches... D.P. Switch and fuses...

and for each outgoing circuit... D.P. Switch and fuses...

Are compartments containing switchboards composed of fire-resisting material or lined as per Rule... Instruments on main switchboard... 2... ammeters... 2... 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... east lamp...

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

Cables, are they insulated and protected as per the appropriate Tables of the Rules ☒ 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... 4.4 lb/sq. in. are the ends of all cables having a sectional area of 0.04 square inch and above provided with soldering sockets ☒ Are paper insulated and varnished cambric insulated cables sealed at the ends...

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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.

H. S. P. & Co.

H. S. P. & Co. - Sole Partners.

Electrical Engineers.

Date *8th March 1943*

COMPASSES.

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

30 feet

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

20 feet

The nearest cables to the compasses are as follows:—

A cable carrying *2* Ampères *led into* feet from standard compass *led into* feet from steering compass.

A cable carrying *5* Ampères *15* feet from standard compass *8* 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 **BARCLAY, CURLE & Co., Ltd.**

Builder's Signature.

Date *8/3/43*

Howalunhinda Secretary

Is this installation a duplicate of a previous case..... If so, state name of vessel.....

Plans. Are approved plans forwarded herewith..... If not, state date of approval.....

7-12-42

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 supervision, tested under working conditions and found satisfactory. All the requirements of the approved plans and M.O.W.I. specification have been carried out. The materials and workmanship are good.

Noted

thus

15.3.43

Total Capacity of Generators *30* Kilowatts.

The amount of Fee £ *22* : *10* :

M.O.W.I. spec. £ 5 12/6

When applied for,

2/3/1943

Travelling Expenses (if any) £ : :

When received,

19

Committee's Minute **GLASGOW** **9 MAR 1943**

Assigned *See I. & E. Report.*

S. P. Findlay

Surveyor to Lloyd's Register of Shipping.