

Rpt. 13.

No. 70306

## REPORT ON ELECTRICAL EQUIPMENT.

(OTHER THAN FOR THE PROPULSION OF THE VESSEL)

Date of writing Report 15<sup>th</sup> Dec 45 When handed in at Local Office 7.1.46 Port of Glasgow  
 No. in Survey held at Glasgow Date, First Survey 21.9.45 Last Survey 18<sup>th</sup> Dec 1945  
 Reg. Book. 36829 on the M. V. "BRITISH SUPREMACY" Tons { Gross 8242  
 Net 4816  
 Built at Belfast By whom built Harland & Wolff Ltd. Yard No. 1284 When built 1945  
 Owners British Tanker Co. Ltd. Port belonging to London  
 Electrical Installation fitted by Harland & Wolff Ltd. Contract No. 1284 When fitted 1945  
 Is vessel fitted for carrying Petroleum in bulk Yes Is vessel equipped with D.F. Yes E.S.D. Yes Gy.C. — Sub.Sig. —

Have plans been submitted and approved Yes 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 Yes Are turbine emergency governors fitted with a  
 trip switch as per Rule Yes 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 — 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  
Yes 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 Yes Description of Main Switchgear for each generator and arrangement of equaliser switches Double pole switch and fuses  
 and for each outgoing circuit Double pole 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 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 W. E.,  
 state maximum fall of pressure between bus bars and any point under maximum load 5.2 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



Rule Yes....., are they suitably stored in dry situations..... Yes..... Insulation Tests, has the insulation resistance of all circuits and apparatus been tested and found satisfactory..... Yes.....



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

13 feet from W/T Motor GENERATOR

Minimum distance between electric generators or motors and steering compass

12 " " " " "

The nearest cables to the compasses are as follows:—

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

A cable carrying 3.5 Ampères 6 feet from standard compass 6 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

Govan Secretary.

Is this installation a duplicate of a previous case

No

If so, state name of vessel

Plans. Are approved plans forwarded herewith

No

If not, state date of approval

1.2.45

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

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 working conditions and found satisfactory. All the requirements of the approved plans have been carried out. The materials and workmanship are good.

Noted

AL

21.1.46

Total Capacity of Generators

60

Kilowatts.

The amount of Fee

£ 28 : 10 :

When applied for,

8 JAN 1946

Travelling Expenses (if any)

£ : :

When received.

19

J. C. Wright

Surveyor to Lloyd's Register of Shipping.

Committee's Minute

GLASGOW

8 JAN 1946

Assigned

ACCOMPANYING MACHINERY REPORT



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