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No. 34502

# REPORT ON ELECTRICAL EQUIPMENT.

(OTHER THAN FOR THE PROPULSION OF THE VESSEL)

Date of writing Report.....19..... When handed in at Local Office..... 25 JUL 1946 Received at London Office..... 26 JUL 1946

Port of SUNDERLAND

No. in Survey held at SUNDERLAND Date, First Survey 25 JUL 1946 Last Survey July 17 1946  
Reg. Book. (Number of Visits.....)

36965 on the M/V 'BRITISH COMMERCE' Tons { Gross 609.2  
Net 333.5

Built at SUNDERLAND By whom built HM. DOXFORD & SONS LTD. Yard No. 736 When built 1946

Owners THE BRITISH TANKER CO. LTD. Port belonging to LONDON

Electrical Installation fitted by CAMPBELL & ISHERWOOD LTD. Contract No. 736 When fitted 1946

Is vessel fitted for carrying Petroleum in bulk YES Is vessel equipped with D.F. YES E.S.D. YES Gy.C. YES Sub.Sig. —  
RADAR.

Have plans been submitted and approved YES System of Distribution TWO WIRE INSULATED 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 — 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 ENGINE ROOM, FORD OF MAIN ENGINE, NO. PORT, NO.2 STBD

NO.2 STBD ON PLATFORM, 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 ENGINE ROOM, ON FORD BULKHEAD, STBD.

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 EBONY SANDHAYO, 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 300 AMPERE, DOUBLE POLE

CIRCUIT BREAKER, WITH REVERSE CURRENT, TIME LAGS, 2 OVERLOAD TRIPS, MAGNETIC BLOWOUTS, AND

THIRD POLE ACTING AS EQUALISER.

and for each outgoing circuit DOUBLE POLE, DOUBLE THROW, Q.B. SWITCH AND DOUBLE POLE FUSE.

Are compartments containing switchboards composed of fire-resisting material or lined as per Rule YES Instruments on main switchboard 3

ammeters 3 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 CONNECTED TO "E" THROUGH SWITCHES AND FUSES.

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 25%, 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% 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 56V., 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.

GUTHRIE & LITTLEWOOD LTD.

*Thomas Meech*

Electrical Engineers.

Date *22nd July 1946*

COMPASSES.

Minimum distance between electric generators or motors and standard compass *25 FEET*

Minimum distance between electric generators or motors and steering compass *15 FEET*

The nearest cables to the compasses are as follows:—

A cable carrying *.14* Ampères *INSIDE* feet from standard compass *INSIDE* feet from steering compass.

A cable carrying *.14* Ampères feet from standard compass *INSIDE* 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 *EVERY* course in the case of the standard compass, and *NIL* degrees on *WILLIAM WOODFORD & SONS, Limited* the case of the steering compass.

*W. Woodford*  
 Managing Director

Builder's Signature.

Date.

Is this installation a duplicate of a previous case *YES.* If so, state name of vessel *BRITISH MARQUIS*

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

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 installed in conformity with the Society's Rules and regulations, and the arrangements are in accordance with, or equivalent to those shown on the approved plans.*

*Materials used are of good quality and the workmanship is satisfactory. On completion, the insulation resistance of all circuits was above the requirements and the generators operated on load and Governor tests with satisfactory results.*

*The equipment as installed, is, in my opinion, suitable for a classed vessel.*

5m.4.33.—Transfer. (MADE AND PRINTED IN ENGLAND.)  
 (The Surveyors are requested not to write on or below the space for Committee's Minutes.)

Total Capacity of Generators *90.* Kilowatts.

The amount of Fee ... £ *31 : 10. :* *19 July 1946*  
 Travelling Expenses (if any) £ : :  
 When applied for,  
 When received,  
 .....19.....

*A. Diment, Jr. S. D. Brand.*  
 Surveyor to Lloyd's Register of Shipping.

FRI. 16 AUG 1946

Committee's Minute

Assigned *See F.E. machy. rpt*



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