

REPORT ON ELECTRICAL EQUIPMENT.

(OTHER THAN FOR THE PROPULSION OF THE VESSEL)

Received at London Office.....

Date of writing Report 17.9.1946 When handed in at Local Office 28 SEP 1946 Port of Sunderland.

No. in Survey held at Sunderland. Date, First Survey 1-7-46 Last Survey 23-9-1946
Reg. Book. 85884 on the M.V. "BRITISH MARSHAL" (Number of Volls. 13)Tons { Gross 858.2
Net 491.2

Built at Sunderland. By whom built Wm. Dwyer & Sons. Yard No. 737 When built 1946

Owners The British Tanker Coy. Ltd. Port belonging to London.

Electrical Installation fitted by Campbell & Isherwood Ltd. Contract No. 737 When fitted 1946.

Is vessel fitted for carrying Petroleum in bulk. Yes Is vessel equipped with D.F. Yes E.S.D. Yes Gy. Comp. Yes Sub. Sig. No. R.A.P.R. - Yes

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 Yes Power Yes 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 Nos. 1 & 2. Engine Room End of Main Engine Room. No. 3.

on Tank Deck. 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 on Tank Deck above Nos. 1 & 2. 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. Dry "Kinsulite" 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. 2 triple pole (one pole

for equaliser) air-break circuit-breaker fitted with 0.1 s time-lag, & R/O Current

Tripping devices.

and for each outgoing circuit. a. double pole, double-throw quick-break trip 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. E lamps connected to E through fuses & 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. 20%, 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. 2.6 lb., 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

100

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.

CAMPBELL & ISHERWOOD, LTD.

PER

W. H. H. H.

Electrical Engineers.

Date

19th September 1946.

COMPASSES.

Minimum distance between electric generators or motors and standard compass.....10'

Minimum distance between electric generators or motors and steering compass.....16'

The nearest cables to the compasses are as follows:—

A cable carrying15..... Ampèresin the..... feet from standard compass6'..... feet from steering compass.

A cable carrying15..... Ampères6..... feet from standard compasson the..... 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 poweryes

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

The maximum deviation due to electric currents was found to benil..... degrees onW. by..... course in the case of the

standard compass, andnil..... degrees onevery..... course in the case of the steering compass.

For and on behalf of

WILLIAM DOXFORD & SONS, Limited. Builder's Signature.

Date

25/9/46

Is this installation a duplicate of a previous case.....yes..... Managing Director, If so, state name of vessel M.V. British Major

Plans. Are approved plans forwarded herewith.....No..... If not, state date of approval 5.12.3.46. D. 28.2.46

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 installed under special survey in accordance with the approved plans and the British "Rules for Electrical Equipment": The materials used are of good quality and design and the workmanship is good: upon completion the equipment was operated on load with satisfactory results, and the insulation resistance of each circuit was measured and found good: This equipment is in my opinion suitable for a classed vessel.

Noted

Thru 7.10.46

Total Capacity of Generators (3x30) 90 Kilowatts.

The amount of Fee ... £ 31.10.0. When applied for, 25 SEP 1946

Travelling Expenses (if any) £ : : When received, 19.....

FRI 11 OCT 1946

Committee's Minute

Assigned. See F.E. mch. rpt.

S. A. Brown

Surveyor to Lloyd's Register of Shipping.



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