

REPORT ON ELECTRICAL EQUIPMENT.

(OTHER THAN FOR THE PROPULSION OF THE VESSEL)

4 JAN 1950

Received at London Office

Date of writing Report 30-5-1949 When handed in at Local Office 19... Port of Liverpool

No. in Survey held at Rochwich Date, First Survey 15/2/49 Last Survey 6/10/1949 (Number of Visits 4)

95678 on the M.V. "MARBURY" Tons Gross Net

Built at Rochwich By whom built J. Pemberton & Son Ltd Yard No. 688 When built 1949

Owners Imperial Chemical Industries Ltd (General Division) Port belonging to Liverpool

Electrical Installation fitted by The Sunderland Forge & Eng. Co. Ltd. Contract No. When fitted 1949

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 230

Heating Power Direct or Alternating Current, Lighting A.C. Power If Alternating Current state periodicity 50 Hz 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

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 No generators fitted,

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 In Engine Room,

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 Sindango, 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 change-over

switch and fuses for generator (when fitted) and shore supply

and for each outgoing circuit Double-pole fuses

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

ammeter one voltmeter synchronising devices For compound machines in parallel is the ammeter connected on the pole opposite to the

equaliser connection Earth Testing, state means provided Card 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 1 Volt, are the ends of all cables having a sectional area of 0.04

square inch and above provided with soldering sockets all less than 0.04 Are paper insulated and varnished cambric insulated cables sealed at the ends



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.

Per Pro THE SUNDERLAND FORGE & ENG. Co. Ltd

W. Armstrong

Electrical Engineers.

Date 31.5.49

COMPASSES.

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

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

The nearest cables to the compasses are as follows:—

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

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Have the compasses been adjusted with and without the electric installation at work at full power

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

The maximum deviation due to electric currents was found to be degrees on course in the case of the standard compass, and degrees on course in the case of the steering compass.

Builder's Signature. Date

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

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 & Rules for Electrical Equipment. The installation has been tested and found satisfactory. The materials & workmanship are good.

Total Capacity of Generators..... Kilowatts.

The amount of Fee ... £ 5 : 0 : 0 When applied for, 22 DEC 1949

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

L. Heffernan
Surveyor to Lloyd's Register of Shipping.

Committee's Minute LIVERPOOL - 3 JAN 1950

Assigned See Minute on Lis. Mchey Rfrs

5m,420.—Transfer. (MADE AND PRINTED IN ENGLAND.)
(The Surveyors are requested not to write on or below the space for Committee's Minute.)

