

Rpt. 13.

No 45/56

REPORT ON ELECTRIC FITTINGS.

(OTHER THAN FOR THE PROPULSION OF THE VESSEL)

Received at London Office 18 NOV 1925

Date of writing Report 20-10-25 When handed in at Local Office 16-11-25 Port of GLASGOW.

No. in Survey held at GREENOCK. Date, First Survey 12th Aug Last Survey 14th Oct 1925
(Number of Visits.....)

Reg. Book.

30817 on the

T.S.M.V. "PROMETHEUS"

Tons { Gross
Net

Built at GREENOCK

By whom built SCOTT'S S. & E. COY

Yard No. 525

When built 1925.

Owners OCEAN S.S. COY (A. HOLT & CO) Port belonging to

LIVERPOOL.

Electric Light Installation fitted by SCOTT'S S. & E. COY

Contract No.

When fitted 1925.

System of Distribution THREE WIRE WITH DIRECT CURRENT. ✓
Pressure of supply for Lighting 110 ✓ volts, Heating 220 ✓ volts, Power 220 ✓ volts.

Direct or Alternating Current, Lighting

DIRECT ✓

Power

DIRECT ✓

If alternating current system, state frequency of periods per second

YES ✓

Has the Automatic Governor been tested and found efficient when the whole load is suddenly thrown on or off

YES ✓

Generators, do they comply with the requirements regarding overload

YES

, are they compound wound

YES ✓

are they over compounded 5 per cent.

YES

, if not compound wound state distance between each generator

Where more than one generator is fitted are they arranged to run in parallel

YES

, is an adjustable regulating resistance fitted in

series with each shunt field

YES

Are all terminals accessible and clearly marked

YES

, are they so spaced or shielded that they cannot be accidentally earthed,

or short circuited

YES

Are the lubricating arrangements of the generators as per Rule

YES

Position of Generators

IN MAIN ENGINE ROOM.

is the ventilation in way of the generators satisfactory

YES

, are they clear of all inflammable material

YES

if situated near unprotected woodwork or other combustible material, state distance of same horizontally from or vertically above the generators

YES

and , are the generators protected from mechanical injury and damage from water, steam or oil

are their axis of rotation fore and aft

YES

YES

are the prime movers and

Earthing, are the bedplates and frames of the generating plant efficiently earthed

YES

their respective generators in metallic contact

Main Switch Boards, where placed

IN MAIN ENGINE ROOM.

If the generators and main switchboard are not placed in the same compartment, is each generator provided with a fuse on each insulated pole as near as possible to the terminals of the generator, additional to that provided on the main switchboard

YES

Switchboards, are they placed in accessible positions, free from inflammable gases and acid fumes

YES

, if situated near unprotected

are they protected from mechanical injury and damage from water, steam or oil

YES

and

woodwork or other combustible material, state distance of same horizontally from or vertically above the switchboards

are they constructed wholly of durable, incombustible non-absorbent materials

YES

, is all insulation of high dielectric strength and of

permanently high insulation resistance

YES

, if semi-insulating material is used, are all conducting parts connected to one pole

insulated from the slab with mica or micanite and the slab similarly insulated from its framework

YES

, and is the

frame effectively earthed

YES

Are the following fittings as per Rule, viz.:— spacing or shielding of live parts

YES

, accessibility of all parts

YES

, absence of fuses on back of board

YES

, proportion of omnibus

bars

YES

, individual fuses to voltmeter, pilot or earth lamp

YES

, connections of switches

YES

Main Switchgear, description of switchgear for each generator and each outgoing circuit, and arrangement of equalizer switches

BREAKER FOR EACH GENERATOR. THIRD POLE ACTS AS EQUALIZER SWITCH. D.P. CIRCUIT BREAKER OR D.P.Q.B. SWITCH

& FUSES FOR 220 VOLT FEEDERS. S.P.Q.B. SELECTOR SWITCHES & D.P. FUSES FOR 110 VOLT FEEDERS.

Instruments on main switchboard 9 ammeters 7 voltmeters — synchronising device for paralleling purposes.

Earth Testing, state what means are provided at the main switchboard for indicating the state of the insulation of the system

Two 220 V. 30 WATT LAMPS.

WITH 2 WAY & OFF SWITCH BETWEEN +VE & -VE TO EARTH. TWO 110V. 30 WATT LAMPS IN PARALLEL BETWEEN NEUTRAL & EARTH.

Switches, Circuit Breakers and Fusible Cut-outs, do these comply with the requirements of the Rules

YES.

Section and Distribution Boards, is the construction, protection, insulation, material, and position of these as per rule

YES.

If portable lamps for use in dangerous spaces are supplied, are they of a type approved by the Home Office YES.

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Foundation

All Conductors are of annealed copper conforming to British Standard Specification No. 7.

The Insulated Conductors are guaranteed to withstand the immersion and resistance tests specified in the Rules.

The foregoing is a correct description.

SCOTT'S SHIPBUILDING & ENGINEERING COMPANY,
LIMITED

Alphon

Electrical Engineers.

Date 9-11-25

ELECTRICAL MANAGER

COMPASSES.

Distance between electric generators or motors and standard compass

35 FEET

Distance between electric generators or motors and steering compass

25 FEET.

The nearest cables to the compasses are as follows:—

A cable carrying 09 Ampères 1N feet from standard compass. 1N feet from steering compass.

A cable carrying 8 Ampères 12 feet from standard compass. 18 feet from steering compass.

A cable carrying 3 Ampères 6 feet from standard compass. 9 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 ALL course in the case of the standard

compass, and NIL degrees on ALL course in the case of the steering compass.

SCOTT'S SHIPBUILDING & ENGINEERING COMPANY,
LIMITED

J. H. Hutchins

Builder's Signature.

Date 9-11-25

Director.

Is this installation a duplicate of a previous case *no*. If so, state name of vessel

General Remarks (State quality of workmanship, opinions as to class, &c.)

This installation has been fitted on board under special survey tested under full working conditions and found satisfactory. The workmanship was found to be good and sound.

It is submitted that
this vessel is eligible for
THE RECORD Elec. light.

J. D.
25/11/25.

Total Capacity of Generators *416* Kilowatts

The amount of Fee ... £ *41-18-0* : *clerk*

Travelling Expenses (if any) £ *1-11-6* : *When received, 25/11/25*

J. S. Rankin
Surveyor to Lloyd's Register of Shipping.

Committee's Minute

GLASGOW 17 NOV 1925

Assigned

Elec. Light



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Im. 422.—Transfer.
(The Surveyors are requested not to write on or below the space for Committee's Minute.)

9-11-25