

REPORT ON ELECTRIC FITTINGS.

(OTHER THAN FOR THE PROPULSION OF THE VESSEL) -1 MAY 1929

Received at London Office.....

Date of writing Report 12.4.29 When handed in at Local Office 29.4.29 Port of GLASGOW.
 No. in Survey held at DUMBARTON. Date, First Survey 27.2.29 Last Survey 12.4.29
 Reg. Book. 89098 on the M.V. AUSTRALIND. (Number of Visits.....6.....)
 Built at DUMBARTON. By whom built MESSRS W. DENNY & SONS Yard No. 1217 When built 1929
 Owners AUSTRALIND. SHIPPING CO LTD. Port belonging to LONDON.
 Electric Light Installation fitted by MESSRS W.C. MARTIN & CO Contract No. 1217 When fitted 1929

System of Distribution Two Wire
 Pressure of supply for Lighting 110 volts, Heating — volts, Power 110 volts.
 Direct or Alternating Current, Lighting Direct Power Direct
 If alternating current system, state frequency of periods per second —
 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 no, 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 Bottom Platform in 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 — and —, are the generators protected from mechanical injury and damage from water, steam or oil yes
 are their axis of rotation fore and aft yes
 Earthing, are the bedplates and frames of the generating plant efficiently earthed yes, are the prime movers and their respective generators in metallic contact yes
 Main Switch Boards, where placed Bottom Platform in 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 —
 Switchboards, are they placed in accessible positions, free from inflammable gases and acid fumes yes
 are they protected from mechanical injury and damage from water, steam or oil yes, if situated near unprotected woodwork or other combustible material, state distance of same horizontally from or vertically above the switchboards — and —
 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
Generators 100 amp D.B. Switches & fuses. 1-75 amp D.B. Change-over Switch & fuses, and 5-50 amp S.P. Switches & D.B. fuses for Circuits
 Instruments on main switchboard Two ammeters Two 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 Earth Lamps
and Switches
 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



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Lloyd's Register Foundation

WS-0092 (1/2)

[illegible]

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.

For W. C. MARTIN & COY. LTD.

Howson Director.

Electrical Engineers.

Date

COMPASSES.

Distance between electric generators or motors and standard compass

80 ft

Distance between electric generators or motors and steering compass

96 ft

The nearest cables to the compasses are as follows:—

A cable carrying 23 Amperes 1 feet from standard compass 24 feet from steering compass.

A cable carrying 23 Amperes 24 feet from standard compass 1 feet from steering compass.

A cable carrying Amperes 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 a certain course in the case of the standard compass, and Nil degrees on The Same course in the case of the steering compass.

WILLIAM DENNY & BROTHERS Limited

John Denny Director

Builder's Signature.

Date 27/4/29.

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 load conditions and found satisfactory. The materials and workmanship were found to be good and sound.

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

Elec. Light

Yhm

6.5.29

Total Capacity of Generators

20

Kilowatts

The amount of Fee ...

£ 17.10.0

When applied for.

19 APR 1929

Travelling Expenses (if any) £

When received.

25 APR 1929

27/5/29 E.C.B.

Committee's Minute

GLASGOW 30 APR 1929

Assigned

Elec. Light

CW

J. S. Rankin

Surveyor to Lloyd's Register of Shipping.