

REPORT ON ELECTRIC FITTINGS.

(OTHER THAN FOR THE PROPULSION OF THE VESSEL)

7 SEP 1927

Date of writing Report 27 - 8 - 1927 When handed in at Local Office 2. 9. 1927 Port of Glasgow

No. in Survey held at Glasgow Date, First Survey 24th June Last Survey 24th Aug 1927
Reg. Book.40508 on the M. V. "Dunkwa" Tons { Gross 3789.47
Net 1996.37

Built at Dumbarton By whom built Archd. McMillan & Son Ltd. Yard No. 735 When built 1927

Owners The British & African Steam Navigation Co. Ltd. Port belonging to Liverpool

Electric Light Installation fitted by Archd. McMillan & Son Ltd. Contract No. 735 When fitted 1927

System of Distribution Two wire

Pressure of supply for Lighting 220 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

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 rating 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, clearly marked, and furnished with sockets Yes, are they so spaced or shielded that they cannot be accidentally earthed,

short circuited, or touched Yes Are the lubricating arrangements of the generators as per Rule Yes

Position of Generators Port side of Motor Room. Yes, are they clear of all inflammable material Yes

is the ventilation in way of the generators satisfactory Yes, if situated near unprotected woodwork or other combustible material, state distance of same horizontally from or vertically above the generators

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

are their axes 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 Switchboard Recess above Generators on Port side of Motor 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 Yes and

are they constructed wholly of durable, non-ignitable 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 insulated from the slab

with mica or micaite or other non-hygroscopic insulating material, and the slab similarly insulated from its framework Yes

and is the frame effectively earthed Yes Are the fittings as per Rule regarding:— 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 (3) each having

one D.P. Circuit Breaker with equalizer switch. Outgoing Circuits, 2-250 amp, 1-200 amp,

1-150 amp, 3-100 amp, & 3-25 amp D.P. switches & fuses.

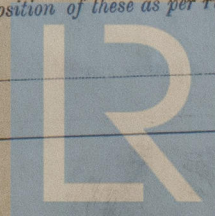
Instruments on main switchboard 3 ammeters 2 voltmeters synchronising device for paralleling purposes.

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

Earth Lamps.

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

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



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No. 27-0067(1/2)

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.

ARCHD. McMILLAN & SON, LTD.

Garrick
Director

Electrical Engineers.

Date 29th Aug. 1927

COMPASSES.

Distance between electric generators or motors and standard compass.

75 feet

Distance between electric generators or motors and steering compass.

72 feet

The nearest cables to the compasses are as follows:—

A cable carrying 2.8 Ampères 9 feet from standard compass 8 feet from steering compass.

A cable carrying .15 Ampères 9 feet from standard compass 1 feet from steering compass.

A cable carrying .15 Ampères 1 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 the courses in the case of the standard compass, and Nil degrees on all the courses in the case of the steering compass.

ARCHD. McMILLAN & SON, LTD.

Garrick
Director

Builder's Signature.

Date 29th Aug. 1927

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.

Total Capacity of Generators 195. Kilowatts.

The amount of Fee ...

£ 36.5.0

When applied for.

5/9/27

Travelling Expenses (if any) £

When received.

8.9.27

Committee's Minute

GLASGOW

6 - SEP 1927

Assigned

Elec. Light.

Surveyor to Lloyd's Register of Shipping.



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