

REPORT ON ELECTRIC FITTINGS.

(OTHER THAN FOR THE PROPULSION OF THE VESSEL)

Received at London Office 13 JAN 1926

Date of writing Report 14.12.1925 When handed in at Local Office 8.1.26, 19 Port of GLASGOW.

No. in Survey held at GLASGOW. Date, First Survey 16.10.25 Last Survey 18.12.25 19
Reg. Book.

400 II. on the S. S. "MAHOUT"

(Number of Visits.....9.....)

Tons { Gross 7880
NetBuilt at PORT GLASGOW. By whom built MESSRS W^M HAMILTON Yard No. 391 When built 1925.

Owners MESSRS T & J. BROCKLEBANK LTD Port belonging to LIVERPOOL.

Electric Light Installation fitted by MESSRS H. T. ROBERTSON & CO Contract No. 391 When fitted 1925.

System of Distribution *Double 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 *—*

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 *Starting Platform Starboard Side*, 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 *Alongside generators*

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*.

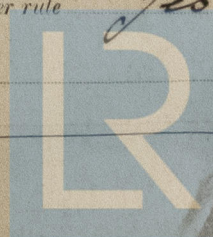
Main Switchgear, description of switchgear for each generator and each outgoing circuit, and arrangement of equalizer switches

2/P Main Switch for each Machine

2/P Circuit Switches for each outgoing circuit

Instruments on main switchboard *2* 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

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

MOTOR CONDUCTORS.									
Ref. No.	DESCRIPTION.	No. of Motors.	Effective Area of each Conductor. Sq. Ins.	COMPOSITION OF STRAND.		Total Maximum Current. Amperes.	Approximate Length. (Lead and Return.) Feet.	Insulated with	HOW PROTECTED.
				No.	Diameter.				
	BALLAST PUMP								
	MAIN BILGE LINE PUMPS ...								
	GENERAL SERVICE PUMP ...								
	EMERGENCY BILGE PUMP ...								
	SANITARY PUMP								
	CIRC. SEA WATER PUMPS ...								
	CIRC. FRESH WATER PUMPS								
	AIR COMPRESSOR								
	FRESH WATER PUMP								
	ENGINE TURNING GEAR ...								
	ENGINE REVERSING GEAR ...								
	LUBRICATING OIL PUMPS ...								
	OIL FUEL TRANSFER PUMP								
	WINDLASS						20		
	WINCHES, FORWARD								
	WINCHES, AFT								
	STEERING GEAR								
	WORKSHOP MOTOR	1	04	19	052	22	60	S.R. Lead Cord & Braided	
	VENTILATING FANS								
	Refing. Engine	1	04	19	052	40	120	" " " "	
	Oil Purifier	1	0045	4	029	7	35	" " " "	

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.

H. T. Robertson & Co.

Electrical Engineers.

Date *18/12/25*

COMPASSES.

Distance between electric generators or motors and standard compass *200 ft.*

Distance between electric generators or motors and steering compass *200 ft.*

The nearest cables to the compasses are as follows:—

A cable carrying *9* Amperes *15* feet from standard compass *15* feet from steering compass.

A cable carrying *3* Amperes *into* feet from standard compass *into* 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 *every* course in the case of the standard compass, and *Nil* degrees on *every* course in the case of the steering compass.

For WILLIAM HAMILTON & CO. LIMITED

Builder's Signature.

Date *21/12/25*

Is this installation a duplicate of a previous case *No*

If so, state name of vessel

S.S. Mahseer

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.

Elec. Light.

29/3/26.

Total Capacity of Generators *34* Kilowatts

The amount of Fee ... £ *23 10 0*

When applied for.

When received.

Travelling Expenses (if any) £

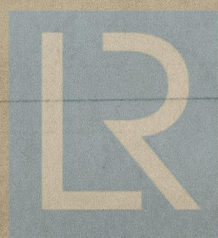
Committee's Minute

Assigned

Elec. Light

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

GLASGOW 12 JAN 1926



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