

REPORT ON ELECTRIC FITTINGS.

(OTHER THAN FOR THE PROPULSION OF THE VESSEL)

11 AUG 1926

Received at London Office.....

Date of writing Report 24.7.1926 When handed in at Local Office 9.8.1926 Port of GLASGOW.

No. in Survey held at GLASGOW. Date, First Survey 8th Apr Last Survey 11th June 1926
Reg. Book. (Number of Visits.....)38253. on the "M.Y. BRITISH DIPLOMAT" Tons { Gross 5820
Net 4565

Built at CLYDEBANK. By whom built MESSRS J. BROWN & CO Yard No. 507. When built 1926.

Owners THE BRITISH TANKER CO LTD Port belonging to LONDON.

Electric Light Installation fitted by MESSRS J. BROWN & CO LTD Contract No. 507 When fitted 1926.

System of Distribution TWO WIRE INSULATED

Pressure of supply for Lighting 110 volts, Heating 110 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 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 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 AT FORWARD END OF 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, if semi-insulating material is used, are all conducting parts connected to one pole

insulated from the slab with mica or micapite 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 FOR EACH 50 K.W. GENERATOR. A

D.P. CIRCUIT BREAKER WITH O/L & R/C. TRIPS, AND A S.P. EQUALIZER SWITCH SO INTERLOCKED WITH THE CIRCUIT BREAKER THAT THIS EQUALIZER SWITCH MUST BE

CLOSED BEFORE THE CIRCUIT BREAKER AND CANNOT BE OPENED UNTIL THE MAIN CIRCUIT IS BROKEN. THE 8 K.W. GEN. & ALL OUTGOING CIRCUITS HAVE D.P. SWITCHES

AND FUSES.

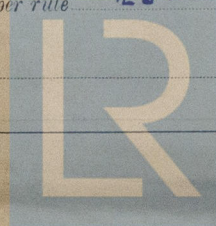
Instruments on main switchboard 3 ammeters 3 voltmeters synchronising device for paralleling purposes.

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 ACROSS

'BUS-BARS WITH WIRE BETWEEN LAMPS EARTHED. VOLTMETER ALTERNATIVELY FROM POSITIVE OR NEGATIVE TO 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



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W289-0070 1/2

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

[illegible]

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	1	0600	13	064	78.5 ✓	228	RUBBER	LEAD COVERED & ARMORED
	MAIN BILGE LINE PUMPS ...	1	02214	7	064	43.5 ✓	268	"	" " "
	GENERAL SERVICE PUMP ...	1	03960	13	052	60.0 ✓	268	"	" " "
	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 ...	1	02214	7	064	43.5 ✓	128	"	" " "
	WINDLASS								
	WINCHES, FORWARD								
	WINCHES, AFT								
	STEERING GEAR	1	24650	37	093	198 ✓	280	"	LEAD COVERED.
	WORKSHOP MOTOR	1	01046	7	044	26. ✓	50	"	" " "
	VENTILATING FANS	1	02214	7	064	22.5 ✓	120	"	" " & ARM.
	REFRIGERATOR	1	06000	13	064	78.5 ✓	600	"	" " "
	LUB. OIL. SEPARATOR. ...	1	00701	7	036	16. ✓	230	"	" " "
	FUEL " "	1	"	"	"	20. ✓	70	"	" " "

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.

John Brown & Company, Limited.

Electrical Engineers.

Date 2nd Aug. 1926

McInderson
Clydebank Secretary

COMPASSES.

Distance between electric generators or motors and standard compass 30 FEET (WIRELESS M/A).

Distance between electric generators or motors and steering compass " "

The nearest cables to the compasses are as follows:—

A cable carrying 4.55 Ampères 10 feet from standard compass 10 feet from steering compass.

A cable carrying .263 Ampères 1 foot from standard compass 1 foot from steering compass.

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

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. Yes

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

John Brown & Company, Limited.

McInderson
Clydebank Secretary

Builder's Signature.

Date 2nd Aug 1926.

Is this installation a duplicate of a previous case Yes. If so, state name of vessel M.V. Leamen.

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 in every way. The workmanship was found to be good and sound.

It is submitted that
this vessel is eligible for
the Record. Elec. Light.
D.H.
12/8/26.

Total Capacity of Generators 108 Kilowatts

The amount of Fee ... £ 31 18 0

Travelling Expenses (if any) £

When applied for,

26/6/26

When received,

1/7/26

M.M.S.A.

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

Committee's Minute GLASGOW 10 AUG 1926

Assigned Elec. Light. W.M.



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A.C.
9/8/26.