

REPORT ON ELECTRIC FITTINGS.

(OTHER THAN FOR THE PROPULSION OF THE VESSEL)

Date of writing Report 27.3.1924 When handed in at Local Office 7.4.1924 Port of GLASGOW Received at London Office WED. APR. 9.1924

No. in Survey held at GLASGOW Date, First Survey 1.2.24 Last Survey 20.3.1924
Reg. Book.

39853 on the "M. V. LUXMI" (Number of Visits 8)

Built at GOVAN By whom built HARLAND & WOLFF LTD Yard No. 642 G Tons { Gross 4148 Net 2537 } When built 1924

Owners A. WEIR & CO Port belonging to GLASGOW

Electric Light Installation fitted by MESRS HARLAND & WOLFF LTD Contract No. 642 G When fitted 1924

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 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 Main Port side of Engine Room Emergency - Upper Deck midship
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 Yes, 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 Port side of Engine Room on Gallery above Dynamos

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 Yes
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 Triple pole switches and D.P. Circuit Breakers for generators and D.P. Switches and 2 single pole fuses for each outgoing circuit

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 Two lamps and two linked S.P. Switches across mains Mid point of lamps 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

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

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	'06	19	'064	68 ✓	66	Rubber	L.S.A.B.
	MAIN BILGE LINE PUMPS	1	'014	7	'052	34 ✓	60	"	"
	GENERAL SERVICE PUMP	-	-	-	-	-	-	-	-
	EMERGENCY BILGE PUMP	1	'014	7	'052	32.5 ✓	480	Rubber	L.S.A.B.
	SANITARY PUMP	1	'04	19	'052	60 ✓	96	"	"
	CIRC. SEA WATER PUMPS	1	'04	19	'052	60 ✓	96	"	"
	CIRC. FRESH WATER PUMPS	2	'007	7	'036	15 ✓	60	"	"
	AIR COMPRESSOR	1	'6	91	'093	340 ✓	61	V.I.R. and Fireproofed	-
	FRESH WATER PUMP ...	-	-	-	-	-	-	-	-
	ENGINE TURNING GEAR	1	'0225	7	'064	41 ✓	120	Rubber	L.S.A.B.
	ENGINE REVERSING GEAR	-	-	-	-	-	-	-	-
	LUBRICATING OIL PUMPS	2	'0145	7	'052	32 ✓	78	Rubber	L.S.A.B.
	OIL FUEL TRANSFER PUMP	1	'007	7	'036	17 ✓	84	"	"
	WINDLASS	1	'2	2-37	'083	360 ✓	140	"	"
	WINCHES, FORWARD	6	'2	2-37	'083	558 ✓	360	"	"
	WINCHES, AFT	5	'2	37	'083	481 ✓	300	"	"
	STEERING GEAR	1	'04	19	'052	47 ✓	528	"	"
	WORKSHOP MOTOR	-	-	-	-	-	-	-	-
	VENTILATING FANS ...	1	'007	7	'036	13 ✓	60	Rubber	L.S.A.B.
	Net salt-water pump	1	'003	3	'036	8 ✓	25	"	"
	Oil purifier	1	'003	"	"	4 ✓	120	"	"
	Lathe	1	'003	"	"	6 ✓	100	"	"
	Drill	1	'003	"	"	8 ✓	70	"	"
	W.T. Door motor	1	'007	7	'036	24 ✓	240	"	"

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 HARLAND & WOLFF, LTD.

John Dickinson

Electrical Engineers.

Date

Managing Director

COMPASSES.

Distance between electric generators or motors and standard compass 50 ft

Distance between electric generators or motors and steering compass 48 ft

The nearest cables to the compasses are as follows:—

A cable carrying 24 Ampères 12 feet from standard compass 6 feet from steering compass.

A cable carrying 6 1/2 Ampères 12 feet from standard compass 6 feet from steering compass.

A cable carrying 1 Ampères 12 feet from standard compass 6 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 course in the case of the standard compass, and nil degrees on all the course in the case of the steering compass.

FOR HARLAND & WOLFF, LTD.

John Dickinson

Builder's Signature.

Date

Managing Director

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

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.

9/4/24.

Total Capacity of Generators 206. Kilowatts

The amount of Fee ... £ 36. 13. 0 :

When applied for,

1/8/24

When received,

See debit book

Travelling Expenses (if any) £ :

J. Rankin

Surveyor to Lloyd's Register of Shipping.

Committee's Minute

GLASGOW

28 APR 1924

Assigned

Elec Light

1m. 9. 22.—Transfer.
(The Surveyors are requested not to write on or below the space for Committee's Minute.)



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