

REPORT ON ELECTRIC FITTINGS.

(OTHER THAN FOR THE PROPULSION OF THE VESSEL)

Received at London Office

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Date of writing Report 15. 2. 1924 When handed in at Local Office 10. 3. 1924 Port of Glasgow

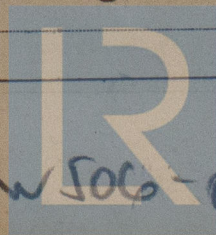
No. in Survey held at Glasgow
Reg. Book. 39695 on the M. V. KathiawarDate, First Survey 9. 11. 23 Last Survey 13. 2. 1924
(Number of Visits 10) 4150Tons { Gross 4320
Net 2730

Built at Govan By whom built Messrs Harland & Wolff Yard No. 611a. When built 1924

Owners Messrs Andrew Weir & Co (Bankers) Port belonging to Glasgow

Electric Light Installation fitted by Messrs Harland & Wolff Ltd Contract No. 611a When fitted 1924

System of Distribution Two wire ✓
 Pressure of supply for Lighting 220V. ✓ volts, Heating 220V. ✓ volts, Power 220V. ✓ 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 Midships, ✓
 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 Port side of Engine Room on gallery above dynamo. ✓
 — 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 Triple pole switches & D.P. Circuit Breakers for Generators and D.P. switches with two 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 & 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 ✓



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Lloyd's Register Foundation

W506-0009(112)

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	1	.06	19	.064	68 ✓	62	Rubber	LSAB
	MAIN BILGE LINE PUMPS ...	1	.014	4	.052	34 ✓	60	"	"
	GENERAL SERVICE PUMP	-	-	-	-	-	-	-	-
	EMERGENCY BILGE PUMP ...	1	.014	4	.052	32.5 ✓	480	Rubber	LSAB
	SANITARY PUMP	1	.04	19	.052	60 ✓	96	"	"
	CIRC. SEA WATER PUMPS ...	1	.04	19	.052	60 ✓	96	"	"
	CIRC. FRESH WATER PUMPS	2	.007	4	.036	15 ✓	60	"	"
	AIR COMPRESSOR	1	.6	91	.093	340 ✓	61	VIR & Impregnated	-
	FRESH WATER PUMP ...	-	-	-	-	-	-	-	-
	ENGINE TURNING GEAR ...	1	.0225	4	.064	41 ✓	120	Rubber	LSAB
	ENGINE REVERSING GEAR ...	-	.0145	-	-	-	-	-	-
	LUBRICATING OIL PUMPS ...	2	.0145	4	.052	32 ✓	48	Rubber	LSAB
	OIL FUEL TRANSFER PUMP	1	.007	4	.036	17 ✓	84	"	"
	WINDLASS	1	.2	2-37	.083	360 ✓	140	"	"
	WINCHES, FORWARD	6	.2	2-37	.083	558 ✓	900	"	"
	WINCHES, AFT	5	.2	2-37	.083	481 ✓	300	"	"
	STEERING GEAR	1	.04	19	.052	47 ✓	528	"	"
	WORKSHOP MOTOR	-	-	-	-	-	-	-	-
	VENTILATING FANS	1	.007	7	.036	13 ✓	60	Rubber	LSAB
		1	.003	5-3	.036	8 ✓	25	"	"
		1	.003	5	5	9 ✓	120	"	"
		1	.003	5	5	6 ✓	100	"	"
		1	.003	5	5	8 ✓	40	"	"
		1	.007	4	.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.

Electrical Engineers.

Date 31 March 1924

FOR HARLAND & WOLFF, LTD.

John Dickenson,
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 Amperes 12 feet from standard compass 6 feet from steering compass.

A cable carrying 6½ Amperes 12 feet from standard compass 6 feet from steering compass.

A cable carrying 1 Amperes 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.

Builder's Signature.

Date 31 March 1924

FOR HARLAND & WOLFF, LTD.

John Dickenson,
Managing Director

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

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
RA.

13/3/24.

Total Capacity of Generators 206 Kilowatts

The amount of Fee ... £ 36 : 13 : 0 When applied for, 20/2/24.

Travelling Expenses (if any) £ : : When received, La debet
book.

Committee's Minute GLASGOW 11 MAR. 1924

Assigned Elec Light YMA

J. Rankin

Surveyor to Lloyd's Register of Shipping.



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