

REPORT ON ELECTRIC FITTINGS.

(OTHER THAN FOR THE PROPULSION OF THE VESSEL)

12 AUG 1925

Received at London Office

Date of writing Report 8. 4. 1925 When handed in at Local Office 10. 8. 1925 Port of GLASGOW.

No. in Survey held at GOVAN.
Reg. Book.Date, First Survey 5. 6. 25 Last Survey 7. 7. 1925.
(Number of Visits 5)

70086. on the M. Y. NAIRNBANK.

Tons { Gross 5155
Net 3152

Built at GOVAN.

By whom built MESSRS HARLAND & WOLFF Yard No. 679 When built 1925.

Owners MESSRS ANDREW WEIR & CO Port belonging to GLASGOW.

Electric Light Installation fitted by MESSRS HARLAND & WOLFF LTD Contract No. 679 When fitted 1925.

System of Distribution

Two ~~main~~ 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 { 2 Diesel in Parallel.
C.O. & 1 Steam

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

Port side of 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

Aft of Engine Room over Thrusts

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

Same compartment

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

Three D.P. Circuit

Breakers for Generators, two interlocked with S.P. switch for paralleling Diesel Dynamos.
D.P. Change over switches & two S.P. fuses for each outgoing circuit.

Instruments on main switchboard 3 ammeters 2 voltmeters nil 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

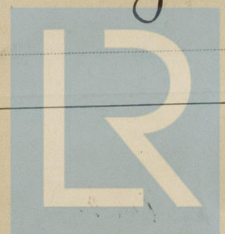
S.P. switches all in parallel across mains. Mid point earthed.

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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002222-002228-0086 1/2

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	.075	19	.072	76 ✓	56	Rubber	Lead Cased
	MAIN BILGE LINE PUMPS ...	1	.007	4	.036	22 ✓	24	Do	Do
	GENERAL SERVICE PUMP ...	—							
	EMERGENCY BILGE PUMP ...	—							
	SANITARY PUMP	1	.06	19	.064	44 ✓	40	Do	Do
	CIRC. SEA WATER PUMPS ...	1	.04	19	.052	60 ✓	36	Do	Do
	CIRC. FRESH WATER PUMPS	2	.007	7	.036	17.5 ✓	26	Do	Do
	AIR COMPRESSOR	1	.6	91	.103	340 ✓	130	Do	Do
	FRESH WATER PUMP	—							
	ENGINE TURNING GEAR ...	2	.0225	4	.064	40 ✓	74	Do	Do
	ENGINE REVERSING GEAR ...	—							
	LUBRICATING OIL PUMPS ...	3	.0145	7	.052	31.5 ✓	26	Do	Do
	OIL FUEL TRANSFER PUMP ...	1	.007	7	.036	17 ✓	56	Do	Do
	WINDLASS	—							
	WINCHES, FORWARD	—							
	WINCHES, AFT	—							
	STEERING GEAR	1	.075	19	.072	76 ✓	550	Do	Do
	WORKSHOP MOTOR	—							
	VENTILATING FANS	1	.007	7	.036	13 ✓	32	Do	Do
	Hot Salt Water Pump	1	.003	3	.036	10 ✓	64	Do	Do
	Oil Purifier	1	.003	3	.036	8 ✓	22	Do	Do
	Lathe	1	.003	3	.036	6.5 ✓	20	Do	Do
	Drill	1	.003	3	.036	8.5 ✓	20	Do	Do

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 Dickenson
Managing Director

Electrical Engineers.

Date

COMPASSES.

Distance between electric generators or motors and standard compass

90 ft.

Distance between electric generators or motors and steering compass

88 ft.

The nearest cables to the compasses are as follows:—

A cable carrying 5 Amperes 12 feet from standard compass 6 feet from steering compass.

A cable carrying 3.4 Amperes 18 feet from standard compass 12 feet from steering compass.

A cable carrying 1.5 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.

FOR HARLAND & WOLFF, LTD.

John Dickenson
Managing Director

Builder's Signature.

Date

Is this installation a duplicate of a previous case Yes

If so, state name of vessel

M.V. Elubank

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.

DA
13/8/25

Total Capacity of Generators 195 Kilowatts

The amount of Fee ...

£ 36.5-0

When applied for,

14/7/25

Travelling Expenses (if any) £

When received,

29.8.25

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

Committee's Minute

GLASGOW 11 AUG 1925

Assigned

Elec. Light. *ghl*



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