

Rpt. 13.

No. 13349

REPORT ON ELECTRIC FITTINGS.

(OTHER THAN FOR THE PROPULSION OF THE VESSEL)

31 JUL 1928

Date of writing Report

30. 7. 1928

When handed in at Local Office

30. 7. 1928

Port of

MIDDLESBROUGH

No. in Survey held at

Haverton Hill on Ties

Date, First Survey

8. 3. 28

Last Survey

15. 6. 1928

1928

Reg. Book.

(Number of Visits 20)

90256 Sup on the

M. V. "Gulfbird"

Tons { Gross 10848
Net 6370.

Built at Haverton Hill on Ties

By whom built

Furness Shipbuilding Co Ltd

Yard No. 122

When built 1928

Owners Gulf Refining Co.

Port belonging to

Pittsburgh Pa. Ft. Arthur (Texas)

Electric Light Installation fitted by Furness Shipbuilding Co Ltd

Contract No. 122 When fitted 1928

System of Distribution

Double Wire -

Pressure of supply for Lighting

110

volts, Heating

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 rating

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, clearly marked, and furnished with sockets

yes -

, are they so spaced or shielded that they cannot be accidentally earthed,

short circuited, or touched

yes -

Are the lubricating arrangements of the generators as per Rule

yes -

Position of Generators

Forward end of Machinery Space -

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 axes 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

Forward end of Machinery Space -

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, non-ignitable 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 insulated from the slab

with mica or micanite or other non-hygroscopic insulating material, and the slab similarly insulated from its framework

yes -

and is the frame effectively earthed

yes -

Are the fittings as per Rule regarding: - 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

Breaker for each Generator, Double Pole switches & fuses for each outgoing circuit -
cartridge type Fuses -

Instruments on main switchboard

9

ammeters

4

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

2-10 watt lamps in series and middle point earthed.

Switches, Circuit Breakers and Fusible Cut-outs, do these comply with the requirements of the Rules

yes -

Joint Boxes Section and Distribution Boards, is the construction, protection, insulation, material, and position of these as per rule

yes -

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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 ...	1	0100 ✓	7	0.044	18.0 ✓	200'	YARNISHED CAMBRIC	LEAD COVERED ARMOURED AND BRAIDED
	GENERAL SERVICE PUMP ...	1	1000 ✓	19	0.083	152.0 ✓	230'		
	EMERGENCY BILGE PUMP ...								
	SANITARY PUMP	1	0100 ✓	7	0.044	32.0 ✓	220'		
	CIRC. SEA WATER PUMPS ...	1	0400 ✓	19	0.052	97.0 ✓	210'		
	CIRC. FRESH WATER PUMPS	2	0400 ✓	19	0.052	97.0 ✓	220'		
Aux	AIR COMPRESSOR	1	2500 ✓	37	0.093	277.0 ✓	225'		
	FRESH WATER PUMP	1	0400 ✓	19	0.052	97.0 ✓	230'		
	ENGINE TURNING GEAR ...	1	0225 ✓	7	0.064	77.0 ✓	240'		
	ENGINE REVERSING GEAR ...								
	LUBRICATING OIL PUMPS ...	1	0100 ✓	7	0.044	28.0 ✓	250'		
	OIL FUEL TRANSFER PUMP ...	1	0100 ✓	7	0.044	18.0 ✓	210'		
	WINDLASS								
	WINCHES, FORWARD								
	WINCHES, AFT								
	STEERING GEAR—								
	(a) MOTOR GENERATOR ...	1	0600 ✓	19	0.064	45.0 ✓	430'		
	(b) MOTOR MOTOR	1	0600 ✓	19	0.064	45.0 ✓	430'		
	WORKSHOP MOTOR	1	0100 ✓	7	0.044	28.0 ✓	320'		
	VENTILATING FANS								
	AUX OIL FUEL PUMP	1	0400 ✓	19	0.052	97.0 ✓	200'	YARNISHED CAMBRIC	LEAD COVERED ARMOURED AND BRAIDED
	REFRIG	1	0100 ✓	7	0.044	21.0 ✓	320'		
	5 TON CRANE	1	0100 ✓	7	0.044	11.0 ✓	260'		
	CENTRIFUGE	1	0100 ✓	7	0.044	11.0 ✓	260'		
	CENTRIFUGE	2	0100 ✓	7	0.044	11.0 ✓	260'		
	OIL PRIMING PUMP	1	0030 ✓	3	0.036	5.0 ✓	100'		

YARNISHED
CAMBRIC

LEAD COVERED
ARMOURED AND
BRAIDED

YARNISHED
CAMBRIC

LEAD COVERED
ARMOURED AND
BRAIDED

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Hovd's

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.

FURNES SHIPBUILDING CO. LIMITED

P. S. Glover

Electrical Engineers.

Date 24th July 1928

COMPASSES.

Distance between electric generators or motors and standard compass

250'

Distance between electric generators or motors and steering compass

240'

The nearest cables to the compasses are as follows:—

A cable carrying 1 Ampères 4 feet from standard compass 4 feet from steering compass.

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

FURNES SHIPBUILDING CO. LIMITED,

Jas. M. Robertson

Builder's Signature.

Date 24. 7. 28

Is this installation a duplicate of a previous case No. If so, state name of vessel

General Remarks (State quality of workmanship, opinions as to class, &c.)

The materials and workmanship are good.
This electric installation has been fitted aboard under special survey in accordance with the Rules and has been tested with satisfactory results. In my opinion it is suitable for a vessel classed with this Society.

It is submitted that this vessel is eligible for the RECORD.

Elec. Light

J. M. 15/8/28.

Total Capacity of Generators 215 Kilowatts.

The amount of Fee ... £ 36-17-6

When applied for, 20.6.1928

Travelling Expenses (if any) £ :

When received, 25.6.1928

M. Man.

Surveyor to Lloyd's Register of Shipping.

Committee's Minute

Assigned

Elec. Light



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