

Rpt 18.

No. 29691

REPORT ON ELECTRIC FITTINGS.

(OTHER THAN FOR THE PROPULSION OF THE VESSEL)

Received at London Office

3 APR 1928

SUNDERLAND.

Date of writing Report

19

When handed in at Local Office

2 APR 1928

Port of Newcastle-on-Tyne

No. in Survey held at

Sunderland

Date, First Survey

25 Oct/27

Last Survey

Mar 24 1928

Reg. Book Subh.

39984 on the S.S. Badjestan

(Number of Visits.....9.....)

Tons

Gross 5573

Net 3353

Built at

Sunderland

By whom built

Bartram & Sons Ltd

Yard No. 260

When built 1928

Owners

Hindustan Steam Shipping Co Ltd

Port belonging to

Newcastle

Electric Light Installation fitted by

The Sunderland Forge & Eng Co Ltd

Contract No. 260

When fitted 1928

System of Distribution

Double Wire ✓

Pressure of supply for Lighting

110 ✓

volts, Heating

volts, Power

volts.

Direct or Alternating Current, Lighting

Direct ✓

Power

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

series with each shunt field

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

Main 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

Yes ✓

and are the generators protected from mechanical injury and damage from water, steam or oil

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

Main 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

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 microne 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

Yes ✓

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

Double Pole Switch & Fuses on Main Generator ✓

Single Pole switch & Double Pole Fuses on each feeder circuit. ✓

Instruments on main switchboard

1 ✓

ammeters

1 ✓

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

Lamps, Switches, & Fuses ✓

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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Lloyd's Register Foundation

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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. Am. amp.	Approximate Length. (Local and Return.) Feet.	Insulated with	HOW PROTECTED.
				No.	Diameter.				
	BALLAST PUMP								
	MAIN BILGE LINE PUMPS ...								
	GENERAL SERVICE PUMP ...								
	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 ...								
	WINDLASS								
	WINCHES, FORWARD								
	WINCHES, AFT								
	STEERING GEAR—								
	(a) MOTOR GENERATOR ...								
	(b) MAIN MOTOR								
	WORKSHOP MOTOR								
	VENTILATING FANS								
	REFRIG. MACHINERY	2	007	7	036	18 ✓	168 ✓	V.I.R.	Pipe

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.

By THE SUNDERLAND FORGE & ENGINEERING CO. LTD. Electrical Engineers.

Date 12th Jan. 1928.

A. Haffner.

COMPASSES.

Distance between electric generators or motors and standard compass 120 feet ✓

Distance between electric generators or motors and steering compass 116 feet ✓

The nearest cables to the compasses are as follows:—

A cable carrying 1/3 Ampères 6 feet from standard compass 8 feet from steering compass.

A cable carrying 1/8 Ampères 2 feet from standard compass 2 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 course in the case of the standard compass, and nil degrees on all course in the case of the steering compass.

For Bartram & Sons Ltd.

H. C. Brown

Secretary

Builder's Signature.

Date

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 above installation is in accordance with the Society's Rules. The vessel is eligible in my opinion for notation electric light wireless

*It is submitted that
this vessel is eligible for
THE RECORD.*

Electric Light

10-4-28

Total Capacity of Generators 10 Kilowatts.

The amount of Fee ... £ 10 : - : 19th Dec 28

Travelling Expenses (if any) £ : : 14th 4-28

W. T. Badger

Surveyor to Lloyd's Register of Shipping.

Committee's Minute

WED. 11 APR 1928

Assigned