

REPORT ON ELECTRIC FITTINGS.

(OTHER THAN FOR THE PROPULSION OF THE VESSEL)

No. 83900

11 MAR 1929

Date of writing Report 19 When handed in at Local Office 8.3.29 Port of Newcastle-on-Tyne

No. in Survey held at Newcastle. Date, First Survey 3rd Jan 1929 Last Survey 25 Feb 1929
 Reg. Book. Supp. (Number of Visits 8)

89333 on the S.S. "British Rhinology"

Built at Newcastle. By whom built Palmer's Co. Ltd. Yard No. 979 When built 1929

Owners British Tanker Co. Ltd. Port belonging to London

Electric Light Installation fitted by Palmer's Co. Ltd. Contract No. 979. When fitted 1929.

System of Distribution Double wire distribution system ✓

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 No, 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 in engine room on dynamo flat

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 in engine room dynamo flat.

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 Double pole switch fuses on dynamo mains. Double pole change over switch fuses on each outgoing circuit

Instruments on main switchboard one ammeters — 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 Earth lamps connected to earth through 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.



© 2020

Lloyd's Register Foundation

W1171-0001.1/2

Cable Sockets and other connections, are the ends of all cables having a sectional area of 0.04 square inch and above provided with soldering sockets

Cable Runs, are the cables fired as far as possible in accessible positions not exposed to drip or accumulation of water or oil, or to high temperature from boilers, steam pipes, uptakes or other hot objects, or to avoidable risk of mechanical damage.

If cables are run in wood casings, are the casings and caps secured by screws —, are the cap screws of brass —, are the cables run in separate grooves —. If armoured and lead covered cables are secured by metal clips are the clips spaced as per W-12, VIII —.

Joints in Cables, state if any, and how made, insulated, and protected —

Bushes in Beams and Non-watertight Partitions, where unarmoured cables pass through beams and non-watertight partitions, are the holes efficiently bushed yes state the material of which the bushes are made lead

..., are their connections made as per Rule _____

Alternative Lighting, are the groups of lights in the propelling machinery space arranged as per Rule Yes

Emergency Supply, state position and method of control of the emergency supply and how the generator is driven

are the switches and fuses grouped in a position accessible only to the officers on watch. Yes

has each navigation lamp an automatic indicator as per Rule. Yes

Secondary Batteries, are they constructed and fitted as per Rule..... —

Fittings, are all fittings on weather decks, in stokeholds and engine rooms and wherever exposed to drip or condensed moisture, watertight

are any fittings placed in spaces in which goods are liable to be stacked in close proximity to them; if so, how are they protected

are any fittings placed in spaces where inflammable or explosive dust or gases are liable to be present, if so, how are they protected. Yes in pump room etc.

protected by strong glass bowl, the lamp accessible only from outside of compartment how are the cables led

where are the controlling switches situated B. P. Switches in acc. "base" mitchi

Searchlight Lamps, No. of , whether fixed or portable , are their fittings as per Rule

Are Lamps, other than searchlight lamps, No. of _____, are their live parts insulated from the frame or case _____, are their fittings as per Rule _____

Motors, are their working parts readily accessible. —, are the coils self-contained and readily removable for replacement.

are the brushes, brush holders, terminals and lubricating arrangements as per Rule XXXXXX, are the motors placed in well-ventilated compartments in which

are they protected from mechanical injury and damage from water, steam or oil. are their axes of rotation fore and aft

f situated near unprotected woodwork or other combustible material, are the motors of the totally enclosed, pipe ventilated forced draught, drip or flame proof type.

_____, if not of this type, state distance of the combustible material horizontally or vertically above the motors _____ and _____

Control Gear and Resistances, are the generator field and motor speed regulators, starters and controllers constructed and fitted as per Rule Yes

Lightning Conductors, where lightning conductors are required, are these fitted as per Rule Yes

Ships carrying Oil having a Flash Point less than 150° F. Have the special requirements of the Rules been complied with regarding switches, joint boxes,

ection and distribution boards, protection of cables, method of distribution, lead of cables, lights and fittings..... *Yes*

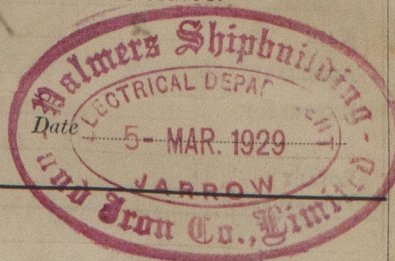
If portable lamps for use in dangerous spaces are supplied, are they of a type approved by the Home Office Yes

Lloyds Rec
W1177-0007

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.

W. H. Bomeroy

Electrical Engineers.



COMPASSES.

Distance between electric generators or motors and standard compass

270 feet.

Distance between electric generators or motors and steering compass

265 feet.

The nearest cables to the compasses are as follows:—

A cable carrying .28 Ampères on the ~~foot from~~ standard compass 7 feet from steering compass.

A cable carrying .28 Ampères 7 feet from standard compass on the ~~foot 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.

PALMERS SHIPBUILDING & IRON Co., Ltd.,

W. H. Bomeroy

Builder's Signature.

Date 5/3/29.

SHIPYARD MANAGER.

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 ELEC. LIGHT.

It is submitted that
this vessel is eligible for
THE RECORD. — ELEC. LIGHT.

W. H. Bomeroy 11. 3. 29.

Total Capacity of Generators 20 Kilowatts.

The amount of Fee ... £ 17 : 10

When applied for,

17 MAR 1929

When received,

14. 3. 29

Travelling Expenses (if any) £ :

W. T. Badger

Surveyor to Lloyd's Register of Shipping.

Committee's Minute

15 MAR 1929

Assigned

Elec Light



© 2020

Lloyd's Register
Foundation