

Rpt. 13.

No. 78021

REPORT ON ELECTRIC FITTINGS.

(OTHER THAN FOR THE PROPULSION OF THE VESSEL)

Received at London Office TUE JUL 1 1924

Date of writing Report 10 When handed in at Local Office 24/6/1924 Port of NEWCASTLE-ON-TYNE

No. in Survey held at Newcastle.
Reg. Book. Suph.

Date, First Survey 19 May Last Survey June 18 1924

39738 on the Khuzistan

Tons { Gross 800
Net

Built at Amble.

By whom built Amble S. B. & Co. Ltd

Yard No. 36

When built 1924

Owners British Tanker Co. Ltd

Port belonging to London

Electric Light Installation fitted by Sunderland Forge & Eng Co. Ltd Contract No. 36 When fitted 1924

System of Distribution Two wire system

Pressure of supply for Lighting 100

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 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

is an adjustable regulating resistance fitted in

series with each shunt field

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

Bottom Platform, 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

Main Switch Boards, where placed

Close to Generator

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 Double Pole Switch

9 DP Zed Type Fuses for Generator, Double Pole Switches 9 DP Zed Type Fuses for Outgoing Circuits

Instruments on main switchboard

1 ammeter

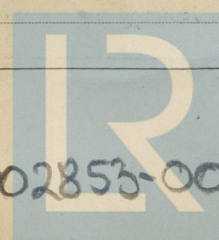
1 voltmeter

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

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.



© 2021

Lloyd's Register
Foundation

002853-002857-0158 1/2

portable lamps for use in dangerous spaces are supplied, are they of a type approved by the Home Office *yes.*

[illegible]

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.

p.pro. THE SUNDERLAND FORGE & ENGINEERING CO. LTD.

Electrical Engineers.

Date 12th June 1924.

Director.

COMPASSES.

Distance between electric generators or motors and standard compass 95 feet

Distance between electric generators or motors and steering compass 90 feet.

The nearest cables to the compasses are as follows:—

A cable carrying 11.2 Ampères 15 feet from standard compass 10 feet from steering compass.

A cable carrying .6 Ampères 5 feet from standard compass led into feet from steering compass.

A cable carrying .6 Ampères led into feet from standard compass 5 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 PALMERS SHIPBUILDING & IRON Co. Ltd.

H. B. Broadhurst 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 elec. light

It is submitted that
this vessel is eligible for
THE RECORD. Elec. light

W. T. Badger.
2/7/24

Total Capacity of Generators 5.5 Kilowatts

The amount of Fee ... £ 5.10.

Travelling Expenses (if any) £ :

When applied for,

24 JUN 1924

When received,

28 JUN 1924

W. T. Badger.

Surveyor to Lloyd's Register of Shipping.

Committee's Minute

FRI 4 JUL 1924

Assigned

Elec Lt



© 2021

Lloyd's Register
Foundation