

REPORT ON ELECTRIC FITTINGS.

(OTHER THAN FOR THE PROPULSION OF THE VESSEL)

Received at London Office 14 JUL 1928

Date of writing Report 10 When handed in at Local Office 12 JULY 1928 Port of LIVERPOOL

No. in Survey held at Birkenhead Date, First Survey Jan'y 30th Last Survey July 2nd 1928

Reg. Book. 43035 on the TACTICIAN S.S. (Number of Visits 87)

Built at BIRKENHEAD By whom built CAMMELL LAIRD & CO. LTD. Yard No. 935 Tons { Gross 5887 Net 3683 When built 1928

Owners T&J HARRISON Port belonging to LIVERPOOL

Electric Light Installation fitted by CAMPBELL & ISHERWOOD LTD. Contract No. When fitted 1928

System of Distribution SINGLE WIRE ✓

Pressure of supply for Lighting 110 volts, Heating NIL ✓ volts, Power NIL ✓ volts.

Direct or Alternating Current, Lighting DIRECT ✓ Power NIL ✓

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 COMPOUND.

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. ONE GENERATOR, 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 DYNAMO RECESS AT STARBOARD 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 hot situated near 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 ON BULKHEAD ADJACENT TO DYNAMO.

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 NONE, proportion of omnibus

bars, 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 6 CIRCUIT S.P.

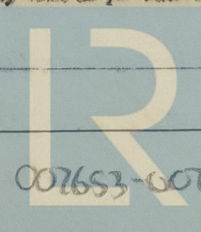
SWITCHBOARD. 1-S.P. 150 AMP. MAIN SWITCH & FUSE. 6-S.P. 50AMP. CIRCUIT SWITCHES AND FUSES. ✓

Instruments on main switchboard ONE ammeters ONE voltmeters NONE 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 ✓

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

007653-007658-0087

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

[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.

CAMPBELL & ISHERWOOD, LTD

Electrical Engineers.

Date 3-7-28.

C. V. Maycock

COMPASSES.

Distance between electric generators or motors and standard compass 165 Ft.

Distance between electric generators or motors and steering compass 155 Ft.

The nearest cables to the compasses are as follows:—

A cable carrying 20 Ampères 20 feet from standard compass 12 feet from steering compass.

A cable carrying .5 Ampères 10 feet from standard compass LED INTO steering compass.

A cable carrying .5 Ampères LED INTO standard compass 10 feet from steering compass.

Have the compasses been adjusted with and without the electric installation at work at full power

Has the effect of switching on and off circuits, motors and other electro-magnetic apparatus within the vicinity of the compasses been noted

The maximum deviation due to electric currents was found to be N. 1 degrees on all courses in the case of the standard compass, and 2° W degrees on all courses N. by E - E. N. E course in the case of the steering compass.

CAMPBELL LAIRD AND COMPANY LIMITED.

Robt. S. Johnson

Builder's Signature.

Date

MANAGING DIRECTOR

Is this installation a duplicate of a previous case *Yes* If so, state name of vessel *S. Logician*

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

This installation has been fitted under special Survey, and is in accordance with the Rules. On completion it was examined under full working conditions, found satisfactory, & is now eligible in my opinion for record of 'Elec Light'

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

Electric Light

J. S. H.

18/7/28.

Total Capacity of Generators *12 1/2* Kilowatts.

The amount of Fee ... £ 12 : 10 : *12 JULY 1928*

Travelling Expenses (if any) £ *✓* : *✓* : *3. 8. 28*

Committee's Minute *LIVERPOOL* *13 JULY 1928*

Assigned

Electric Light.

J. S. Milton & Co. S. Shields

Surveyor to Lloyd's Register of Shipping.