

# REPORT ON ELECTRIC FITTINGS.

(OTHER THAN FOR THE PROPULSION OF THE VESSEL) FBI.DFC.151922

Date of writing Report 10 When handed in at Local Office 22. 11. 1922 Port of Middlesbrough

No. in Survey held at Haverton Hill-on-Tees Date, First Survey 21. 3. 21 Last Survey 25. 10. 1922  
Reg. Book. (Number of Visits 13)

79882 on the Steel Screw Steamer "Egyptian Prince" Tons { Gross 3496  
Net 1800

Built at Haverton Hill/Tees By whom built Furness S/B Co Ltd Yard No. 27 When built 1922

Owners Prince Line Ltd Port belonging to London

Electric Light Installation fitted by Furness Shipbuilding Co Ltd Contract No. ✓ When fitted 1922

System of Distribution Double Wire

Pressure of supply for Lighting 100 volts, Heating — volts, Power 100 volts.

Direct or Alternating Current, Lighting D.C. Power D.C.

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. Level, 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 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 (Freshwater) Tank room - port side Tween Decks

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 yes ✓

Main Switch Boards, where placed Near Generators in Tank Room Port Side Tween Dks

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

D.P. Switch & fuse for each generator & Outgoing circuit & D.P. Change Over Switch

for Connecting Generator alternatively to Bus Bars (Fuses Porcelain A.O. pattern)

Instruments on main switchboard 2 ✓ 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 Two 16 c.p. lamps

in series & middle point earthed. Connected to each Bus Bar by means of Switch & fuse

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 ✓







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.

F. S. FURNESS SHIPBUILDING Co. LIMITED

P. S. Glover

Electrical Engineers.

Date 18th Nov 1922

#### COMPASSES.

Distance between electric generators or motors and standard compass 100 ft Approx

Distance between electric generators or motors and steering compass 100 ft - do -

The nearest cables to the compasses are as follows:—

A cable carrying 6 Ampères 3 feet from standard compass 4 feet from steering compass.

A cable carrying 3 Ampères inside 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.

F. S. FURNESS SHIPBUILDING Co. LIMITED  
J. Mc Govern  
Director

Builder's Signature.

Date 18th Nov. 1922

Is this installation a duplicate of a previous case Yes If so, state name of vessel 4s "Egyptiana"

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

This installation has been efficiently fitted on board and proved satisfactory under working conditions

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

Elec. Light

AH13

18/12/22

Total Capacity of Generators 22 1/2 Kilowatts

The amount of Fee ... £ 18 : 15 : 8.12.19.22

Travelling Expenses (if any) £

When applied for,

8.12.19.22

When received,

See debit book

Wm Morrison & Wm Cowie  
Surveyors to Lloyd's Register of Shipping.

TUE. 19 DEC. 1922

Committee's Minute

Assigned

Im 4.22—Transfer.  
(The Surveyors are requested not to write on or below the space for Committee's Minute.)



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Foundation