

Rpt 13.

No. 80564

REPORT ON ELECTRIC FITTINGS.

25 AUG 1926

(OTHER THAN FOR THE PROPULSION OF THE VESSEL)

Received at London Office

Date of writing Report

19

When handed in at Local Office

24/8/26 Port of

NEWCASTLE-ON-TYNE

No. in Survey held at

Newcastle

Date, First Survey 8 April

Last Survey 13 Aug

19 26

Reg. Book. Supp.

88854 on the

"EL AMIR FAROUK"

Tons

Gross

Net

Built at Newcastle

By whom built Hawthorn Leslie & Co. Ltd.

Yard No. 543

When built 1926

Owners Egyptian Government

Port belonging to

Electric Light Installation fitted by Hawthorn Leslie & Co. Ltd.

Contract No. 543 When fitted 1926

System of Distribution

Double wire system ✓

Pressure of supply for Lighting

110

volts, Heating

110

volts, Power

110

volts.

Direct or Alternating Current, Lighting

Direct ✓

Power

Direct ✓

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

yes

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

Engine room aft

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

—

—

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

Engine room aft

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 micawite or other non-hygroscopic insulating material, and the slab similarly insulated from its framework

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 2-400 amp D.C. circuit

breakers fitted with overload reverse current trip interlocked with S. equaliser switch on main dynamo.

Double pole fuses & single pole switches on each outgoing circuit.

Instruments on main switchboard

2

ammeters

2

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

coupled 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

WHS-0160

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If 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.

Electrical Engineers.

Date 23rd August 1926.

COMPASSES.

Distance between electric generators or motors and standard compass

135 feet

Distance between electric generators or motors and steering compass

127 feet

The nearest cables to the compasses are as follows:—

A cable carrying .26 Amperes on the ~~standard~~ standard compass 8 feet from steering compass.

A cable carrying .26 Amperes 8 feet from standard compass on the ~~steering~~ steering compass.

A cable carrying 11.4 Amperes 12 feet from standard compass 9 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 4.1 degrees on each course in the case of the standard

compass, and 4.1 degrees on each course in the case of the steering compass.

Builder's Signature.

Date 23rd August 1926

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, wireless

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

W. T. Badger
26/8/26

Total Capacity of Generators 81 Kilowatts.

The amount of Fee ... £ 34 : 11 : 11/8/1926

Travelling Expenses (if any) £ : : 13/8/1926

W. T. Badger

Surveyor to Lloyd's Register of Shipping.

Committee's Minute

Assigned

Elec light



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