

REPORT ON ELECTRIC FITTINGS.

(OTHER THAN FOR THE PROPULSION OF THE VESSEL)

Received at London Office

WED DEC 20 1922

Date of writing Report

19

When handed in at Local Office

19th Dec 1922 Port of Aberdeen

No. in Survey held at

Aberdeen

Date, First Survey

19. 9. 22

Last Survey

3. 11. 1922

Reg. Book.

4883/100 On the

SS "ELAINE LLEWELLYN"

Tons

Gross 2141

Net 1336

Built at

Aberdeen

By whom built

John Lewis & Sons Ltd.

Yard No. 88

When built

1922

Owners

Llewellyn Shipping Coy Ltd.

Port belonging to

Cardiff

Electric Light Installation fitted by

James Thomson Aberdeen

Contract No. ✓

When fitted 1922

System of Distribution

Double wiring, distribution board 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.

, 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

on starting platform starboard side in 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

4 ft. horizontally

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 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, 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

, 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

Instruments on main switchboard

one

ammeter

one

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

a lamp connected to earth on each pole

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 ✓

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Foundation 009994-010003-019 1/2

[illegible]

All Conductors are of annealed copper conforming to British Standard Specification No. 7. *yes.*

The Insulated Conductors are guaranteed to withstand the immersion and resistance tests specified in the Rules. *yes.*

The foregoing is a correct description.

James Thomson

Electrical Engineers.

Date *16th December 1922.*

COMPASSES.

Distance between electric generators or motors and standard compass

about 60 feet.

Distance between electric generators or motors and steering compass

about 55 feet

The nearest cables to the compasses are as follows:—

A cable carrying *5* Amperes *8* feet from standard compass *8* feet from steering compass.

A cable carrying _____ Amperes _____ feet from standard compass _____ feet from steering compass.

A cable carrying _____ Amperes _____ 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 *any* course in the case of the standard compass, and *nil* degrees on *any* course in the case of the steering compass.

JOHN LEWIS & SONS Ltd.

C. C. Wilson

SHIPYARD MANAGER.

Builder's Signature.

Date *18th Dec. 1922.*

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 various parts of the Installation were examined during the fitting on board. The material and workmanship are good and in accordance with the requirements of the Rules, and on completion the light was tried at full power, and everything found satisfactory.

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

Blue Light

AAB
2/1/23

Total Capacity of Generators *12* Kilowatts

The amount of Fee ... £ *12* : 0 : _____

Travelling Expenses (if any) : £ _____

When applied for,

19.12.1922

When received,

See debit book.

Ridley Powell
Surveyor to Lloyd's Register of Shipping.

Committee's Minute _____

Assigned _____

1m. 322.—Transfer.
(The Surveyors are requested not to write on or below the space for Committee's Minute.)



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