

Rpt. 13.

DARTHEMA

No. 39795

REPORT ON ELECTRIC FITTINGS.

(OTHER THAN FOR THE PROPULSION OF THE VESSEL)

29 APR 1929

Received at London Office

Date of writing Report

19

When handed in at Local Office

19

Port of

No. in Survey held at

Hull.

Date, First Survey

5 April

Last Survey

12 April 1929.

Reg. Book.

61616 on the Steam Trawler "LARWOOD."

(Number of Visits.....)

Tons

Gross 318.98

Net 145.86.

Built at

Luby

By whom built

Behnam & Sons

Yard No.

When built

1929

Owners

The Grapin Steam Fishing Co Ltd

Port belonging to

Grimsby

Electric Light Installation fitted by

Humber Electric Co Ltd

Contract No.

When fitted 1929.

System of Distribution

Two wire

Pressure of supply for Lighting

100

volts, Heating

volts, Power

volts.

Direct or Alternating Current, Lighting

Direct current

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 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

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

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

Yes

and

Yes

, 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. Direct coupled.

Main Switch Boards, where placed

Beside generator in engine room

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

Yes

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

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

Main circuits controlled by SP. Switches & protected by fuses on each pole.

Instruments on main switchboard

One

ammeters

One

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

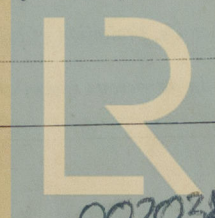
Earth lamps, with separate switches

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



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

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Foundation

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.

FOR THE HUNTER ELECTRICAL ENGINEERING CO.

108 Shute-lincoln

Electrical Engineers.

Date

COMPASSES.

Distance between electric generators or motors and standard compass *68 feet.*

Distance between electric generators or motors and steering compass

The nearest cables to the compasses are as follows:—

A cable carrying *5* Ampères *To* feet from standard compass feet from steering compass.

A cable carrying *5* Ampères *To* 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 *no* degrees on *any* course in the case of the standard

compass, and *no* degrees on *any* course in the case of the steering compass.

FOR COCHRANE & SONS, LTD.

J. S. Cochrane

DIRECTOR

Builder's Signature.

Date *23 APR 1929*

Is this installation a duplicate of a previous case *Yes*

If so, state name of vessel

Kingston freight

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

The electrical installation of this vessel has been fitted on board under special survey, tried under full working conditions & found in good order. The materials & workmanship are sound & good. It is eligible in my opinion to have record of Electric Light.

It is submitted that

this vessel is eligible for

THE RECORD.

Elec. Light

JKm

30.4.29

Total Capacity of Generators

5

Kilowatts.

The amount of Fee ...

£ 3 : 0

When applied for,

10 April 1929.

Travelling Expenses (if any) £

When received,

13 April 1929.

Committee's Minute

Assigned

Elec Light

John H. Mackenzie

Surveyor to Lloyd's Register of Shipping.

Im. 28.—Transfer.
(The Surveyors are requested not to write on or below the space for Committee's Minute.)



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