

REPORT ON ELECTRIC FITTINGS.

(OTHER THAN FOR THE PROPULSION OF THE VESSEL)

30 APR 1929

Date of writing Report 29.4.1929 When handed in at Local Office 29 Apr 1929 Port of HULL

No. in Survey held at Hull

Date, First Survey 12 April

Last Survey 29 April 1929

Reg. Book.

67008. on the Steam Trawler "PERIHELION"

(Number of Visits.....)

Tons { Gross 313.98
Net 145.86

Built at Selby

By whom built Graham & Sons

Yard No. 1043

When built 1929

Owners Perihelion S. Fishing Co. Ltd.

Port belonging to Grimsby.

Electric Light Installation fitted by Humber Electrical Co. Ltd.

Contract No. -

When fitted 1929.

System of Distribution

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 - , 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

Position of Generators Starboard side of engine room Yes, are they clear of all inflammable material Yes

is the ventilation in way of the generators satisfactory 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 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 compound

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 - 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 -

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 S.P. switches & protected by fuses on each pole.

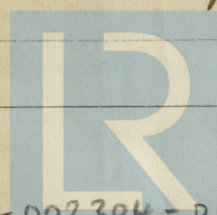
Instruments on main switchboard One ammeters One voltmeters - synchronising device for paralleling purposes.

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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Lloyd's Register

002298-002304-0190-1/2

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.

W.B. Shute

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 *70* feet from standard compass feet from steering compass.

A cable carrying *5* Ampères *70* 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 degrees on course in the case of the standard compass, and degrees on course in the case of the steering compass.

FOR COCHRANE & SONS, LTD.

W.B. Shute

DIRECTOR Builder's Signature.

Date *26 APR. 1929*

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

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

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

It is submitted that
this vessel is eligible for
THE RECORD. — ELEC. LIGHT

Rm

1.5.29

Total Capacity of Generators *5* Kilowatts.

The amount of Fee ... £ *3 : 0* : When applied for, *29 April 29.*

Travelling Expenses (if any) £ : : When received, *2/5/29*

Committee's Minute *FRI. 3 MAY 1929*

Assigned *Elec. Light*

John H. Mackenzie
Surveyor to Lloyd's Register of Shipping.