

REPORT ON ELECTRIC FITTINGS.

(OTHER THAN FOR THE PROPULSION OF THE VESSEL)

Received at London Office 13 AUG 1926

Date of writing Report 19 When handed in at Local Office 18. 8. 1926 Port of WEST HARTLEPOOL

No. in Survey held at WEST HARTLEPOOL Date, First Survey 25 June Last Survey 22nd July 1926
Reg. Book. (Number of Visits 3)

90351 on the SS. OTTERPOOL

Tons { Gross 4867
Net 2999

Built at Darlington By whom built Messrs W. Graythwaite Yard No. 980 When built 1926

Owners The Pool Shipping Co. Ltd Port belonging to WEST HARTLEPOOL

Electric Light Installation fitted by Messrs Clarke Chapman & Co Contract No. 980 When fitted 1926

System of Distribution Double wire system

Pressure of supply for Lighting 110 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. Yes, 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.

Are all terminals accessible and clearly marked Yes, are they so spaced or shielded that they cannot be accidentally earthed, or short circuited.

Are the lubricating arrangements of the generators as per Rule Yes

Position of Generators Engine room starboard side

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.

Main Switch Boards, where placed Engine room starboard side 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 Yes

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 8'-0"

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.

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.

Main Switchgear, description of switchgear for each generator and each outgoing circuit, and arrangement of equalizer switches.

Double pole switch & fuses in dynamo main, single pole switches & double pole fuses in each outgoing circuit.

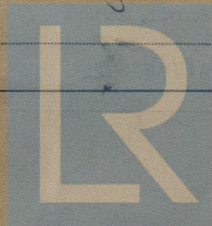
Instruments on main switchboard - ammeters - voltmeters - synchronising device for paralleling purposes.

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.

Section and Distribution Boards, is the construction, protection, insulation, material, and position of these as per rule.



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W350-0067 1/2

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

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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 Clarke, Chapman & Co. Ltd.

H. Walker
Chairman

Electrical Engineers.

Date *Aug. 16th 1926*

COMPASSES.

Distance between electric generators or motors and standard compass *96 ft*

Distance between electric generators or motors and steering compass *90 "*

The nearest cables to the compasses are as follows :—

A cable carrying *.5* Ampères *12* feet from standard compass *6* feet from steering compass.

A cable carrying *.5* Ampères *6* feet from standard compass *12* 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* course in the case of the standard compass, and *nil* degrees on *all* course in the case of the steering compass.

For William Gray & Co. Limited

W. C. P. Gray

Builder's Signature.

Date *18.8.26*

Managing Director

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

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

*This installation has been fitted under survey.
The materials and workmanship are good.
On completion it was examined under full
working conditions and found satisfactory*

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

R.D.

20/8/26.

Total Capacity of Generators *7 1/2* Kilowatts

The amount of Fee ... *£ 7 : 10 :* *23.7.26*
Travelling Expenses (if any) *£ :* *26.7.26*

R.D. Shilston

Surveyor to Lloyd's Register of Shipping.

Committee's Minute

Assigned

Elec Light



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