

REPORT ON ELECTRIC FITTINGS.

(OTHER THAN FOR THE PROPULSION OF THE VESSEL)

Received at London Office 20 SEP 1924

Date of writing Report 19 When handed in at Local Office 19/9/1924 Port of Chaddesbrough

No. in Survey held at South Bank Date, First Survey whole Last Survey building 19
Reg. Book. on the "Hartley" (Number of Visits.....)Built at South Bank By whom built Smiths Dock & Co Yard No. 494 When built 1924
Owners Port belonging toElectric Light Installation fitted by Messrs R. Pickersgill & Sons Ltd Contract No. When fitted
Stockton

System of Distribution

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. 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 and clearly marked, 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

Position of Generators Starboard side Engine room

is the ventilation in way of the generators satisfactory yes, are they clear of all inflammable material

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

are their axis of rotation fore and aft

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 Starboard side on Engineers Store

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 12" and 10'-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 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, 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 Double

pole switch & fuses

Instruments on main switchboard 1 ammeters 1 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 2 Lamps in

series main fuses

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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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.

RICHARD PICKERSGILL & SONS, LTD.

Electrical Engineers.

Date September 13/24

COMPASSES.

Distance between electric generators or motors and standard compass 150 ft

Distance between electric generators or motors and steering compass 140 ft

The nearest cables to the compasses are as follows:—

A cable carrying 32 Ampères 18 feet from standard compass 16 feet from steering compass.

A cable carrying 10.8 Ampères feet from standard compass feet from steering compass.

A cable carrying 1.2 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

The maximum deviation due to electric currents was found to be nil degrees on all courses in the case of the standard compass, and nil degrees on all courses in the case of the steering compass.

FOR SMITH'S DOCK COMPANY, LTD

J. W. Davies

Builder's Signature.

Date 15th Sept 24

Shipyard Manager.

Is this installation a duplicate of a previous case yes If so, state name of vessel S.S. STELLING

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

been fitted in accordance with the Rules
is of good workmanship and materials
and on completion was examined under
full working conditions and found
satisfactory

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

C. D. J. W. Davies
27/9/24

Total Capacity of Generators 6 Kilowatts

The amount of Fee ... £ 6 : 0 : 14.9.19.24
Travelling Expenses (if any) £ : : See list

Arthur W. Oxford
Surveyor to Lloyd's Register of Shipping.

Committee's Minute

FRI. 26 SEP 1924

Assigned

Im. 9.22.—Transfer.
(The Surveyors are requested not to write on or below the space for Committee's Minute.)



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