

Rpt. 13.

No. 15895

REPORT ON ELECTRIC FITTINGS.

(OTHER THAN FOR THE PROPULSION OF THE VESSEL)

1 - DEC 1926

Date of writing Report 24-11-1926 When handed in at Local Office

Port of Rotterdam

No. in Survey held at Rotterdam

Date, First Survey 5-10-26 Last Survey 3-11-1926

Reg. Book.

(Number of Visits.....)

on the steel screw tug "SCHELDE"

Tons

Gross

Net

Built at Rotterdam By whom built P. Smith & M. S.

Yard No. 421. When built 1926

Owners Internationale Sleperdienst M. Port belonging to Rotterdam

Electric Light Installation fitted by C. H. v. Serenter, Co.

Contract No.

When fitted 1926

System of Distribution

Two conductors ✓

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

series with each shunt field

yes

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

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

yes

Main Switch Boards, where placed

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, 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 0.062 sq"

, 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 knife quick shut off switch

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

two lamps

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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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.

C. van den Broek

Electrical Engineers.

Date *8 Nov. 1926*

COMPASSES.

Distance between electric generators or motors and standard compass

60 feet

Distance between electric generators or motors and steering compass

56 "

The nearest cables to the compasses are as follows :—

A cable carrying *0.36* Ampères *one* feet from standard compass *seven* feet from steering compass.

A cable carrying *0.36* Ampères *seven* feet from standard compass *one* 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 *nihil* degrees on *every* ~~ref.~~ course in the case of the standard compass, and *nihil* degrees on *every* course in the case of the steering compass.

MACHINEFABRIEK & SCHEEPSWERF
van P. SMIT Jr., ROTTERDAM.

P. H. van den Broek

Builder's Signature.

Date

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.

This installation has been fitted in accordance with the Rules and was found in a good working condition when tried. I am of opinion that same merits the Committee's approval.

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

W.D.
3/10/26

Total Capacity of Generators *8* Kilowatts

The amount of Fee ...

£ *196.00*

When applied for,

19

When received,

4.12.1926

Travelling Expenses (if any) £

C. H. Bounce
Surveyor to Lloyd's Register of Shipping.

Committee's Minute *FRI. 3 DEC 1926*

Assigned

Elec. Light



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