

Rpt. 13.

No. 24880

**REPORT ON ELECTRIC FITTINGS**

(OTHER THAN FOR THE PROPULSION OF THE VESSEL)

12 OCT 1936

Date of writing Report 2. 10. 36 When handed in at Local Office

Port of Rotterdam

No. in Survey held at

Deest

Date, First Survey

30 July

Last Survey

17 Oct 1936

Reg. Book.

on the

MV. "ARTHUR TOWN"

(Number of Visits 4)

Tons

Gross 524

Net 263

Built at

Deest

By whom built

Gebr. Van Weel

Yard No. 201

When built

1936

Owners

Elbe Arthur Simpson

Port belonging to

London

Electric Light Installation fitted by

C. A. Leijnse &amp; Co Nijmegen

Contract No.

When fitted

1936

System of Distribution

double wire

Pressure of supply for Lighting

24

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 overload

yes

are they compounded wound

No

are they over compounded 5 per cent.

No

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

No

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

engineroom

is the ventilation in way of the generator's 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

engineroom

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 micranite and the slab similarly insulated from its framework

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

no

proportion of omnibus

bars

20 x 4 mm

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

yes

Double pole switch &amp; fuses for each generator

Single pole switch &amp; fuses for each outgoing circuit

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

yes

Earth 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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Foundation

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Fall of Pressure, state maximum between bus bars and any point of the installation under maximum load 1 1/2 % *yes*

Cable Sockets and other connections, are the ends of all cables having a sectional area of 0.007 square inch and above provided with soldering sockets

**Paper Insulated Cables.** *If cables are paper covered, is the dielectric at the exposed ends of the conductor protected from moisture by being suitably sealed with insulating compound*

**Cable Runs,** are the cables fixed as far as possible in accessible positions not exposed to drip or accumulation of water or oil, or to high temperature from boilers, steam pipes, uptakes or other hot objects, or to avoidable risk of mechanical damage yes ✓

**Support and Protection of Cables,** *state how the cables are supported and protected* according rules ✓

If cables are run in wood casings, are the casings and caps secured by screws \_\_\_\_\_, are the cap screws of brass \_\_\_\_\_, are the cables run in separate grooves \_\_\_\_\_. If armoured and lead covered cables are \_\_\_\_\_

Refrigerated Chambers, if lights are fitted, are the cables and fittings in accordance with the special requirements

Joints in Cables, state if any, and how made, insulated, and protected *made in iron boxes* ✓

Watertight Glands and Deck Tubes, are all cables passing through decks and watertight bulkheads provided with deck tubes or watertight glands

Bushes in Beams and Non-watertight Positions, where unarmoured cables pass through beams and non-watertight partitions, are the holes efficiently bushed YES state the material of which the bushes are made of brass

**Earthing Connections**, state what earthing connections are fitted and their respective sectional areas

Alternative Lighting, are the groups of lights in the propelling machinery space arranged as per Rule yes / yes ✓, are their connections made as per Rule yes ✓

Emergency supply, state position and method of control of the emergency supply and how the generator is driven yes  
 1 direct coupled 1 belt drive

Navigation Lamps, are these separately wired yes ✓, controlled by separate switch and separate fuses yes ✓

are the fuses double pole yes ✓, are the switches and fuses grouped in a position accessible only to the officers on watch yes ✓

are separate oil lanterns provided for the mast head lights and side lights *yes*

Fittings, are all fittings on weather decks, in stokeholds and engine rooms and wherever exposed to drip or condensed moisture, watertight  
are any fittings placed in spaces in which goods are liable to be stacked in close proximity to them : if so, how are they protected

are any fillings placed in spaces where inflammable or explosive dust or gases are liable to be present, if so, how are they protected. No

where are the controlling switches situated

Searchlight Lamps, No. of \_\_\_\_\_, whether fixed or portable \_\_\_\_\_, are their fittings as per Rule \_\_\_\_\_

**Are Lamps,** other than searchlight lamps, No. of \_\_\_\_\_, are their fittings as per Rule \_\_\_\_\_

**Motors,** are their working parts \_\_\_\_\_, are their live parts insulated from the frame or case \_\_\_\_\_, are their fittings as per Rule \_\_\_\_\_

*Motors, are their working parts readily accessible* \_\_\_\_\_, *are the coils self-contained and readily removable for replacement* \_\_\_\_\_

Control Gear and Resistance \_\_\_\_\_, if not of this type, state distance of the combustible material horizontally or vertically above the motors \_\_\_\_\_ and \_\_\_\_\_

**Lightning Conductors**, where lightning rods are used, are to be installed in accordance with the requirements of the National Fire Protection Association, NFPA 780, Standard for the Installation of Lightning Protection Systems, 2011 Edition, and the National Electrical Code, NEC, 2011 Edition, Article 250.104, Grounding of Lightning Protection Systems.

Ships carrying Oil having a Flash Point \_\_\_\_\_, are those fitted as per Rule \_\_\_\_\_ *yes*

section and distribution boards, protection of cables, method of distribution, lead of cables, lights and fittings

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

## PARTICULARS OF GENERATING PLANT

PARTICULARS OF GENERATING PLANT.								
DESCRIPTION OF GENERATOR.	No of	RATED AT				DRIVEN BY.	WHERE DRIVEN BY AN INTERNAL COMBUSTION ENGINE.	
		Kilowatts.	Volts.	Ampères.	Revs. per Min.		Fuel Used.	Flash Point of Fuel.
MAIN	26366	1	24	45	1500	Bel driven by oil engine		
AUXILIARY	26367	1	24	45	1100	direct coupled auxil. engine		
EMERGENCY								
ROTARY TRANSFORMER								

LIGHTING AND HEATING CONDUCTORS.

[illegible]

## MOTOR CONDUCTORS.

[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.

*C. Steijnse & Co Nijmegen* Electrical Engineers.

Date *19<sup>th</sup> September 1936*

COMPASSES.

Distance between electric generators or motors and standard compass

*24 feet*

Distance between electric generators or motors and steering compass

*20 feet*

The nearest cables to the compasses are as follows:—

A cable carrying *4* Amperes *10* feet from standard compass *8* feet from steering compass.

A cable carrying *1* Amperes *10* feet from standard compass *10* feet from steering compass.

A cable carrying — Amperes — 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

degrees on

course in the case of the standard

compass, and

degrees on

course in the case of the steering compass.

N.V. SCHEEPSWERF G.B.B. & D. WERF

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 approved plans, Secretan's letters and Society's Rules same was found in a good working order when tried and I am of opinion that this installation merits the approval of the Committee.*

Total Capacity of Generators *2.16* Kilowatts

The amount of Fee ...

*60.00*

When applied for,

*5.10.36*

Travelling Expenses (if any) £

When received,

*22.3.37*

*M. J. Ochoa*  
Surveyor to Lloyd's Register of Shipping.

Committee's Minute

*FRI 9 APR 1937*

Assigned

*See minute on F.E. rpt.*



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