

REPORT ON ELECTRIC FITTINGS.

(OTHER THAN FOR THE PROPULSION OF THE VESSEL)

14 JUN 1928

Date of writing Report 2nd June 1928 When handed in at Local Office10 Port of CopenhagenNo. in Survey held at Copenhagen
Reg. Book.Date, First Survey 14th March Last Survey 13th May 1928.(Number of Visits 17)40075 on the Screw Motor Vessel "BRETAGNE"Tons { Gross 3176.67
Net 1930.66Built at CopenhagenBy whom built Akt. Burmeister & Wain's Maskin og Skibsbyggeri.Yard No. 355When built 1927-28.Owners Det. Dansk-Franske Dampskibsselskab.
(A. N. Petersen)Port belonging to CopenhagenElectric Light Installation fitted by Akt. Burmeister & Wain's Maskin og Skibsbyggeri. Contract No. 355 When fitted 1928

System of Distribution

Direct current, Two conductors, Insulated system.

Pressure of supply for Lighting

110 volts, Heating

volts, Power

220 volts.

Direct or Alternating Current, Lighting

Direct current.

Power

Direct current.

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 yesGenerators, do they comply with the requirements regarding rating yesare they compound wound yesare they over compounded 5 per cent. 0 per cent.

if not compound wound state distance between each generator

Where more than one generator is fitted are they arranged to run in parallel yesis an adjustable regulating resistance fitted in series with each shunt field yesAre all terminals accessible, clearly marked, and furnished with sockets yesare they so spaced or shielded that they cannot be accidentally earthed, short circuited, or touched yesAre the lubricating arrangements of the generators as per Rule yes

Position of Generators

in the machinery space.is the ventilation in way of the generators satisfactory yesare 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

Not situated near unprotected woodwork or other combustible material.are the generators protected from mechanical injury and damage from water, steam or oil yesare their axes of rotation fore and aft yesEarthing, are the bedplates and frames of the generating plant efficiently earthed yesare the prime movers and their respective generators in metallic contact yes

Main Switch Boards, where placed

In the machinery space.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 Placed in the same compartmentSwitchboards, are they placed in accessible positions, free from inflammable gases and acid fumes yesare they protected from mechanical injury and damage from water, steam or oil yesif situated near unprotected woodwork or other combustible material, state distance of same horizontally from or vertically above the switchboards Not situated near unprotected woodwork or other combustible material.are they constructed wholly of durable, non-ignitable non-absorbent materials yesis all insulation of high dielectric strength and of permanently high insulation resistance yesif semi-insulating material is used, are all conducting parts insulated from the slab with mica or micawile or other non-hygroscopic insulating material, and the slab similarly insulated from its framework yesand is the frame effectively earthed yes

Are the fittings as per Rule regarding:— spacing or shielding of live parts

yes, accessibility of all parts yesabsence of fuses on back of board yesproportion of omnibus bars yesyes, individual fuses to voltmeter, pilot or earth lamp yesconnections of switches yes

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

For each generator a three pole circuit breaker with overload and reversed current trip.For each outgoing circuit a double switch and a double pole fuse.

Instruments on main switchboard

5 ammeters4 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 One Voltmeter isprovided with an Ohm scale and the switchboard is provided with 2 sets of earth testing lamps.Switches, Circuit Breakers and Fusible Cut-outs, do these comply with the requirements of the Rules yesJoint Boxes Section and Distribution Boards, is the construction, protection, insulation, material, and position of these as per rule yes

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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.

AKTIESELSKABET
BURMEISTER & WAIN
HASKIN OG SKIBSBYGGERI

Electrical Engineers.

Date

COMPASSES.

Distance between electric generators or motors and standard compass *Generator about 19 Metres, Motor abt. 15 Metres.*

Distance between electric generators or motors and steering compass *" " 18 Metres, " " 12 " "*

The nearest cables to the compasses are as follows:—

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

A cable carrying *0.15* Amperes *to lamp in the* feet from standard compass *and in the* 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 *0* degrees on *all* course in the case of the standard compass, and *0* degrees on *all* course in the case of the steering compass.

AKTIESELSKABET
BURMEISTER & WAIN
HASKIN OG SKIBSBYGGERI

Builder's Signature.

Date

Is this installation a duplicate of a previous case *yes* If so, state name of vessel *M/S*

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

The whole electric lighting and power installation as above described has been fitted in accordance with the requirements of the Rules, the approved plan and the Secretary's letter E. dated the 20th July 1927.

The material used in the installation and the workmanship throughout are of good description in every respect.

The whole electric lighting and power installation has been tested under full power working condition and found satisfactory.

Recommend the vessel to have notation in the Register Book of "Electric Light."

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

Total Capacity of Generators *132* Kilowatts.

The amount of Fee ... *£ 602.09* : { When applied for, *12.6* 19.28.

Travelling Expenses (if any) £ : : { When received, *8.8* 19.28.

Committee's Minute *JULY 19 1928*

Assigned *Elec Light*

Im 128.—Transfer.
(The Surveys are requested not to write on or below the space for Committee's Minute.)



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