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No. 16196^D

REPORT ON ELECTRICAL EQUIPMENT.

(OTHER THAN FOR THE PROPULSION OF THE VESSEL)

Received at London Office 17 NOV 1946

Date of writing Report 22 Nov. 1946 When handed in at Local Office 19 Port of Amsterdam

Survey held at Amsterdam Date, First Survey 10th Sept Last Survey 5th Nov. 1946
Reg. Book. (Number of Visits 4)

2877 on the S/S "AARDENBURG" (ex "Stahleek") Tons { Gross 1663
Net 907

Built at Bremen By whom built A.G. "WESER" Yard No. When built 1923

Owners Kon. Ned. Stoomboot Mij. Port belonging to Amsterdam

Electrical Installation OVERHAULED by N.V. Groeneveld & de Poll & Co Contract No. ✓ When fitted ✓

Is vessel fitted for carrying Petroleum in bulk no Is vessel equipped with D.F. yes E.S.D. yes Gy.C. no Sub.Sig. no

Have plans been submitted and approved ✓ System of Distribution double wire Voltage of supply for Lighting 110 V

Leaving ✓ Power 110 V Direct or Alternating Current, Lighting DC Power DC If Alternating Current state periodicity ✓ Prime Movers, as the governing been tested and found as per Rule when full load is suddenly thrown on and off yes Are turbine emergency governors fitted with a rip switch as per Rule ✓ Generators, are they compound wound yes, are they level compounded under working conditions ✓, if not compound wound state distance between generators ✓ and from switchboard ✓ Where more than one generator is fitted are they arranged to run in parallel ✓, are shunt field regulators provided yes Is the compound winding connected to the negative or positive pole ✓ Have machines over 100 kw. been inspected by the Surveyors during manufacture and testing ✓ Have certificates of test for machines under 100 kw. been supplied ✓ and the results found as per rule ✓ Are the lubricating arrangements and the construction of the generators as per rule yes Position of Generators in Engine room at Starboard side, is the ventilation in way of generators satisfactory yes are they clear of inflammable material yes, if situated near unprotected combustible material state distance from same horizontally ✓ and vertically ✓, are the generators protected from mechanical injury and damage from water, steam and oil yes, are the bedplates and frames earthed yes and the prime movers and generators in metallic contact yes Switchboards, where are main switchboards placed in Engine room at Starboard side are they in accessible positions, free from inflammable gases and acid fumes yes, are they protected from mechanical injury and damage from water, steam and oil yes, if situated near unprotected combustible material state distance from same horizontally ✓ and vertically ✓, what insulation material is used for the panels marble, if of synthetic insulating material is it an Approved Type ✓, if of semi-insulating material (slate or marble) are all conducting parts insulated therefrom as per Rule yes Is the frame effectually earthed yes Is the construction as per Rule yes, including accessibility of parts yes, absence of fuses on the back of the board yes, individual fuses to pilot and earth lamps, voltmeters, etc., yes locking of screws and nuts yes, labelling of apparatus and fuses yes, fuses on the "dead" side of switches no Description of Main Switchgear for each generator and arrangement of equaliser switches double pole circuit breaker

and for each outgoing circuit double pole circuit breakers

Are compartments containing switchboards composed of fire-resisting material or lined as per Rule yes Instruments on main switchboard 1 ammeter 1 voltmeters ✓ synchronising devices. For compound machines in parallel is the ammeter connected on the pole opposite to the equaliser connection ✓ Earth Testing, state means provided ✓

Switches, Circuit Breakers and Fuses, are they as per Rule yes, are the fuses an approved type yes, are all fuses labelled as per Rule yes If circuit breakers are provided for the generators, at what overload current did they open when tested ✓, are the reversed current protection devices connected on the pole opposite to the equaliser connection ✓, have they been tested under working conditions, and at what current did they operate ✓ Joint Boxes, Section Boards and Distribution Boards, is the construction and position as per Rule yes

Cables, are they insulated and protected as per the appropriate Tables of the Rules ✓, if otherwise than as per Rule are they of an approved type yes, state maximum fall of pressure between bus bars and any point under maximum load 2 volt, are the ends of all cables having a sectional area of 0.04 square inch and above provided with soldering sockets yes Are paper insulated and varnished cambric insulated cables sealed at the ends ✓

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The Electrical Equipment is installed in accordance with the approved plans and the requirements of the Rules.
All Insulated Conductors are guaranteed to have been tested at the maker's works as specified in the Rules.
The foregoing is a correct description.

Electrical Engineers.

Date

COMPASSES.

Minimum distance between electric generators or motors and standard compass..... 24 m

Minimum distance between electric generators or motors and steering compass..... 20 m

The nearest cables to the compasses are as follows:—

A cable carrying 0.3 Ampères 6 m feet from standard compass 3 m feet from steering compass.

A cable carrying Ampères feet from standard compass 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 course in the case of the standard compass, and nihil degrees on every course in the case of the steering compass.

Builder's Signature.

Date

Is this installation a duplicate of a previous case..... no If so, state name of vessel

Plans. Are ~~approved~~ plans forwarded herewith..... one If not, state date of approval

Certificates. Are certificates of test for motors engaged on essential services and generators forwarded herewith

General Remarks (State quality of workmanship, whether insulation tests, etc., have been made, opinions as to class, etc.)

The electric equipment has been fitted under special survey of the firm Lloyd's.
The whole installation examined and found in order; cables, fittings etc.
renewed where necessary and afterwards megger tested with satisfactory results.
Noted the absence of a second supply to the navigation lights from an alternative
circuit which will be made at the vessel's return of her present voyage.
This installation merits in my opinion the approval of the Committee.

Total Capacity of Generators..... 5 Kilowatts.

The amount of Fee ...

£ 40.-

When applied for,
26-11-1946

Travelling Expenses (if any) £

When received.

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Surveyor to Lloyd's Register of Shipping.

Committee's Minute

FRI. 28 FEB 1947

Assigned

See F.F. mch. rpt.