

Rpt. 13.

No. 16774

CLASSIFICATION

REPORT ON ELECTRICAL EQUIPMENT.

(OTHER THAN FOR THE PROPULSION OF THE VESSEL)

- 3 JAN 1949

Received at London Office.....

Date of writing Report. 28th Nov. 1948 When handed in at Local Office.....19..... Port of AmsterdamNo. in Survey held at Amsterdam Date, First Survey 2nd June Last Survey 20th Nov. 1948
Reg. Book. (Number of Visits.....8.....)

20140 on the S/S "BENGKALIS" Tons { Gross 6453.. Net 4035..

Built at Rotterdam By whom built My. voor Schep- & Werktuigbouw
FYENDOORD Yard No. When built 1918

Owners Stoomvaart My "Nederland" Port belonging to Amsterdam

Electrical Installation fitted by When fitted 1918

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

Have plans been submitted and approved no System of Distribution two wire Voltage of supply for Lighting 110V

Heating Power Direct or Alternating Current, Lighting DC Power If Alternating Current state periodicity Prime Movers,

has 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

trip switch as per Rule Generators, are they compound wound yes, are they level compounded under working conditions yes

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 no, are shunt field regulators provided yes Is the compound winding connected to the negative or positive pole

negative 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 Engine room Port 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

Engine room Port side, first grating level

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 yes Description of Main Switchgear for each generator and arrangement of equaliser switches d.p. change-over knife

switch between 7 kW & 11 kW dynamos. Between this pair and the 15 kW dynamo a similar

change-over switch is fitted, from which the current is led to the busbars, so that only one

and for each outgoing circuit dynamo can be connected to the circuit, and running in parallel is

d.p. switches and fuses not possible.

Are compartments containing switchboards composed of fire-resisting material or lined as per Rule yes Instruments on main switchboard

ammeters 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 earth lamps

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 yes, if otherwise than as per Rule are they of an approved type

state maximum fall of pressure between bus bars and any point under maximum load 2V, 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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Foundation

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..... 35 m

Minimum distance between electric generators or motors and steering compass..... 33 m

The nearest cables to the compasses are as follows:—

A cable carrying 0.2 Ampères ~~led into~~ feet from standard compass ~~led into~~ feet from steering compass. (compass lighting)

A cable carrying 0.3 Ampères 9 feet from standard compass 8 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 any course in the case of the standard compass, and nihil degrees on any 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..... none available 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.) This installation has been fitted in 1918 under Special Survey of Bureau Veritas.

The entire installation has been examined and found or made in order; main switch board and dynamos cleaned and minor repairs carried out. Cables, fittings & switches renewed in midship, on deck and in Aft compartment, and as regards the rest of the circuit renewed or repaired where necessary. A new board for Navigation lights has been fitted as per Rule. On completion of the survey the installation has been tried under working condition and was megger tested with satisfactory results.

I am of opinion that this Electrical Equipment merits the approval of the Committee.

Total Capacity of Generators..... 33 Kilowatts.

The amount of Fee ... £ 190: When applied for, 26.12.1918

Travelling Expenses (if any) £ : : When received, 19.....

Committee's Minute

Assigned

FRL 29 APR 1949

See minute on J.E. 111

Noted on 21/4/49

Surveyor to Lloyd's Register of Shipping.



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