

REPORT ON ELECTRICAL EQUIPMENT.

(OTHER THAN FOR THE PROPULSION OF THE VESSEL)

APR 12 1937

Received at London Office

Date of writing Report 0-4-1937 When handed in at Local Office 10 Port of Rotterdam

No. in Survey held at Bolnes Date, First Survey 2-3-34 Last Survey 23-3-1934
 Reg. Book. on the steel T.S. Tug. "Upesi" (Number of Visits 4) Tons { Gross
 Net

Built at Bolnes By whom built "Boele" Yard No. 862 When built 1934

Owners N.V. Verenigde Scheeps. Mij. Port belonging to 's Greenhege

Electric Light Installation fitted by N.V. A. de Hoop Rotterdam Contract No. When fitted 1936-37

Is the Vessel fitted for carrying Petroleum in bulk no

System of Distribution two wire volts, Heating _____ volts, Power _____ volts.

Pressure of supply for Lighting 110 volts, Heating _____ Power _____

Direct or Alternating Current, Lighting direct ✓

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 _____

Generators, do they comply with the requirements regarding temperature rise _____, are they compound wound yes ✓

are they over compounded 5 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 _____, is an adjustable regulating resistance fitted in series with each shunt field yes ✓

approved yes ✓ Have machines over 100 kw. been inspected by the Surveyors during manufacture and testing _____

Are all terminals accessible, clearly marked, and furnished with sockets yes ✓, are they so spaced or shielded that they cannot be accidentally earthed, short circuited, or touched 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 axes 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 motorroom

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, non-ignitable non-absorbent materials yes ✓

is all insulation of high dielectric strength and of permanently high insulation resistance yes ✓

is it of an approved type yes ✓, if semi-insulating material is used, are all conducting parts insulated from the slab with mica or micanite or other non-hygroscopic insulating material, and the slab similarly insulated from its framework _____, is the non-hygroscopic insulating material of an approved type _____

and is the frame effectively earthed yes ✓ Are the fittings as per Rule regarding:— spacing or shielding of live parts _____, accessibility of all parts yes ✓

absence of fuses on back of board yes ✓, temperature rise of omnibus bars _____, individual fuses to voltmeter, pilot or earth lamp yes ✓

are moving parts of switches alive in the "off" position no ✓ are all screws and nuts securing connections effectively locked yes ✓ are any fuses fitted on the live side of switches no ✓

Main Switchgear, description of switchgear for each generator and each outgoing circuit, and arrangement of equalizer switches For the generators: two x two single pole fuses and 1 double pole change over switch. For each outgoing circuit: 1 double pole switch and two single pole fuses

Are turbine driven generators fitted with emergency trip switch as per rule _____ Are cupboards or compartments containing switchboards composed of fire-resisting material or lined with approved material _____

Instruments on main switchboard 1 ammeters 1 voltmeters _____

synchronising device for paralleling purposes. For compound machines is the ammeter connected on the opposite pole to equaliser connection _____

Earth Testing, state what means are provided at the main switchboard for indicating the state of the insulation of the system 2 earth detector lamps

Switches, Circuit Breakers and Fusible Cut-outs, do these comply with the requirements of the Rules yes ✓ are the fusible cutouts of an approved type yes ✓ have the reversed _____

current protection devices been tested under working conditions

construction, protection, insulation, material, and position of these as per rule

Cables: Single, twin, concentric, or multicore single and twin are the cables insulated and protected as per Tables IV, V, X or XI of the Rules

If the cables are insulated otherwise than as per Rule, are they of an approved type

any point of the installation under maximum load

area of 0.04 square inch and above provided with soldering sockets

If conductors are paper or varnished cambric insulated, is the dielectric at the exposed ends of the conductor protected from moisture by being suitably sealed with insulating compound

insulating compound, or waterproof insulating tape

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

Are cables in machinery spaces, galleys, laundries, bathrooms and lavatories lead covered or run in conduit

Support and Protection of Cables, state how the cables are supported and protected

where necessary protected by tubes

If cables are run in wood casings, are the casings and caps secured by screws

separate grooves

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

Joints in Cables, state if any, and how made, insulated, and protected

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 Partitions, where unarmoured cables pass through beams and non-watertight partitions, are the holes efficiently bushed

state the material of which the bushes are made

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

are their connections made as per Rule

Alternative Lighting, are the groups of lights in the propelling machinery space arranged as per Rule

position and method of control of the emergency supply and how the generator is driven

Navigation Lamps, are these separately wired

are the switches and fuses grouped in a position accessible only to the officers on watch

has each navigation lamp an automatic indicator as per Rule

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

are any fittings placed in spaces where inflammable or explosive dust or gases are liable to be present, if so, how are they protected

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PARTICULARS OF GENERATING PLANT.

Table with columns: DESCRIPTION OF GENERATOR, No. of, RATED AT (Kilowatts, Volts, Amperes, Revs. per Min.), DRIVEN BY, WHERE DRIVEN BY AN INTERNAL COMBUSTION ENGINE (Fuel Used, Flash Point of Fuel).

GENERATOR, LIGHTING AND HEATING CONDUCTORS.

Table with columns: DESCRIPTION, CONDUCTORS (No. per Pole, Total Nominal Area per Pole, Sq. Ins.), COMPOSITION OF STRAND (No., Diameter), TOTAL MAXIMUM CURRENT (Ampere, Rule), Approximate Length (Lead and Return) Feet, Insulated with, HOW PROTECTED.

MOTOR CONDUCTORS.

Table with columns: DESCRIPTION, No. of Motors, CONDUCTORS (No. Per Pole, Total Nominal Area per Pole, Sq. Ins.), COMPOSITION OF STRAND (No., Diameter), TOTAL MAXIMUM CURRENT (Ampere, Rule), Approximate Length (Lead and Return) Feet, Insulated with, HOW PROTECTED.

All Conductors are of annealed copper conforming to British Standard Specification No. 7 (or International Electro-technical Commission Publication No. 28).

The Insulated Conductors are guaranteed to withstand the immersion and resistance tests specified in the Rules.

The foregoing is a correct description.

p.p. N.V. ELECTROTECHNISCH-BUREAU
A. DE HOOP

Electrical Engineers.

Date 25 3 37

J. B. Borman

COMPASSES.

Distance between electric generators or motors and standard compass 18 mtr.

Distance between electric generators or motors and steering compass ✓

The nearest cables to the compasses are as follows:—

A cable carrying 0.5 Ampères ✓ feet from standard compass 6 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.

N.V. Boele's Scheepawerf
en Machinefabriek.

J. Boele

Builder's Signature. Date

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

General Remarks (State quality of workmanship, opinions as to class, &c. *This installation has been*)

made and fitted in accordance with the approved plan, secretary's letters and Society's Rules. The generators (ex tug Mohesi) have been examined and tested. The whole has been tested under full working condition and found in order, and merits in my opinion the Committee's approval.

Noted

YRW

13.4.37

Total Capacity of Generators *4* Kilowatts.

The amount of Fee ... *50.00* : When applied for, *10.4.1937*

Travelling Expenses (if any) £ *—* : When received, *4.5.37*

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

Committee's Minute

FRI 16 APR 1937

Assigned

See Prot. No. 25436

7503, 36.—Transfer.
The Stereograms are requested not to write on or below the space for Committee's Minute.)



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