

REPORT ON ELECTRIC FITTINGS.

(OTHER THAN FOR THE PROPULSION OF THE VESSEL)

Received at London Office 16 JAN 1930

Date of writing Report 29-12-1929 When handed in at Local Office 10 Port of Rotterdam

No. in Survey held at Flushing Date, First Survey 21-6-29 Last Survey 12-12-1929
 Reg. Book. on the Steel screw Motor Ship "POELAU TELLO" (Number of Visits... 16)

Built at Flushing By whom built Hon Mr. De Schelde Yard No. 105 When built 1929

Owners Stoom Maatschappij "Nederland" Port belonging to Amsterdam

Electric Light Installation fitted by M. V. Groeneveld & Co Contract No. When fitted 1929

Is the Vessel fitted for carrying Petroleum in bulk No

System of Distribution Two wire system, direct current.

Pressure of supply for Lighting 220 volts, Heating - volts, Power 220 & 110 volts.

Direct or Alternating Current, Lighting direct current Power direct and alternating current.

If alternating current system, state frequency of periods per second 50 per

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 rating yes, are they compound wound yes
 are they over compounded 5 per cent. yes, if not compound wound state distance between each generator -

Where more than one generator is fitted are they arranged to run in parallel yes, is an adjustable regulating resistance fitted in series with each shunt field yes

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 in Main motor room, Two on Starboard, One on Port side, 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 the main motor room

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, 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 yes, and is the frame effectively earthed yes

Are the fittings as per Rule regarding: — spacing or shielding of live parts yes, accessibility of all parts yes, absence of fuses on back of board -, proportion of omnibus bars yes, individual fuses to voltmeter, pilot or earth lamp yes, connections of switches yes

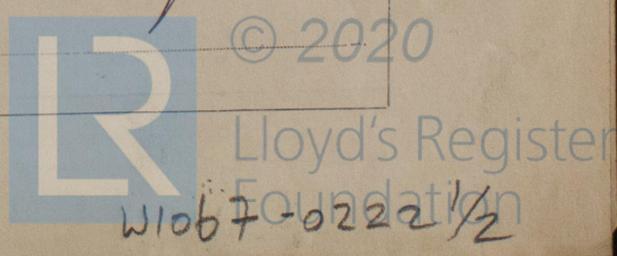
Main Switchgear, description of switchgear for each generator and each outgoing circuit, and arrangement of equalizer switches The generators are running in parallel and provided with a current breaker in the equalizer and in the minus pole and an automatic contactor in the plus pole. One overload trip in latter.

Instruments on main switchboard 14 ammeters 3 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 Two Ohm meters.

Switches, Circuit Breakers and Fusible Cut-outs, do these comply with the requirements of the Rules yes

Joint Boxes Section and Distribution Boards, is the construction, protection, insulation, material, and position of these as per rule yes



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

Fall of Pressure, state maximum between bus bars and any point of the installation under maximum load 27

Cable Sockets and other connections, are the ends of all cables having a sectional area of 0.04 square inch and above provided with soldering sockets

Yes
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 On perforated steel plates or in wooden channels

If cables are run in wood casings, are the casings and caps secured by screws Yes, are the cap screws of brass Yes, are the cables run in separate grooves Yes. If armoured and lead covered cables are secured by metal clips, are the clips spaced as per Table VIII Yes

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

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

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

Yes
Bushes in Beams and Non-watertight Partitions, 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 Lead and fibre

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 Yes

Emergency Supply, state position and method of control of the emergency supply and how the generator is driven In steering engine room is placed a battery of 135 cells which feeds in case of emergency the steering gear and the navigation and main motor room lighting

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

has each navigation lamp an automatic indicator as per Rule Yes

Secondary Batteries, are they constructed and fitted as per Rule Yes

Fittings, are all fittings on weather decks, in stokeholds and engine rooms and wherever exposed to drip or condensed moisture, watertight Yes, 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 fittings placed in spaces where inflammable or explosive dust or gases are liable to be present, if so, how are they protected —

—, how are the cables led

where are the controlling switches situated

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

Are Lamps, other than searchlight lamps, No. of —, are their live parts insulated from the frame or case —, are their fittings as per Rule —

Motors, are their working parts readily accessible Yes, are the coils self-contained and readily removable for replacement Yes, are the brushes, brush holders, terminals and lubricating arrangements as per Rule Yes, are the motors placed in well-ventilated compartments in which inflammable gases cannot accumulate and clear of all inflammable material Yes

are they protected from mechanical injury and damage from water, steam or oil Yes are their axes of rotation fore and aft Yes, if situated near unprotected woodwork or other combustible material, are the motors of the totally enclosed, pipe ventilated, forced draught, drip or flame proof type

—, if not of this type, state distance of the combustible material horizontally or vertically above the motors — and —

Control Gear and Resistances, are the generator field and motor speed regulators, starters and controllers constructed and fitted as per Rule Yes

Lightning Conductors, where lightning conductors are required, are these fitted as per Rule —

Ships carrying Oil having a Flash Point less than 150° F. Have the special requirements of the Rules been complied with regarding switches, joint boxes, section and distribution boards, protection of cables, method of distribution, lead of cables, lights and fittings —

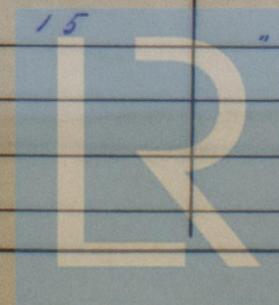
If portable lamps for use in dangerous spaces are supplied, are they of a type approved by the Home Office —



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Feedpump.	2	1	0.4985	61	.103	306. ✓	332	200 60.	"	"
Deep tank oil pump	1	1	0.19640	3727	.083	184 ✓	184	200	"	"
Laundry motor	1	1	0.00299	3	.036	12 ✓	12	120	"	"
Galley	2	1	0.00102	1	0.36	4 ✓	4.1	40	"	"
Monkey boiler fan	2	1	0.00299	3	.036	8.4 ✓	12	80	"	"
Converter motor	1	1	0.11009	19	.083	116. ✓	110	15	"	"



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W1067-0222 2/2

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.

N.V. Groeneveld, van der Poll & Co's
Electrotechnische Fabriek

J. Groeneveld

Electrical Engineers.

Date

COMPASSES.

Distance between electric generators or motors and standard compass 240

Distance between electric generators or motors and steering compass 240

The nearest cables to the compasses are as follows:—

A cable carrying 4 Ampères 10 feet from standard compass 10 feet from steering compass.

A cable carrying 3 Ampères 10 feet from standard compass 10 feet from steering compass.

A cable carrying 2 Ampères 10 feet from standard compass 10 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 0 degrees on every course in the case of the standard compass, and 0 degrees on every course in the case of the steering compass.

N. V. KON. MY. "DE SCHELDE".

J. van der Poll

Builder's Signature.

Date 10 Jan. 1930.

Is this installation a duplicate of a previous case Yes If so, state name of vessel POELVA BRASS, POELVA RUIBIAH

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

been fitted in accordance with the Society's Rules, material and workmanship good. The whole installation was found in a good working condition when tried and merits in my opinion the Committee's approval.

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

Blec Light

J.M.

17/1/30.

Total Capacity of Generators 420 Kilowatts.

The amount of Fee ...

£ 594

When applied for, 28/12 1929

Travelling Expenses (if any) £

When received, 3/1 1930

M. J. Oetwa
Secretary to Lloyd's Register of Shipping.

Committee's Minute

FRI 17 JAN 1930

Assigned

Blec Light

Im 1228.—Transfer. (The Survivors are requested not to write on or below the space for Committee's Minute.)



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