

REPORT ON ELECTRIC FITTINGS.

(OTHER THAN FOR THE PROPULSION OF THE VESSEL)

28 MAR 1936

Date of writing Report 24-3-1936 When handed in at Local Office

Port of Rotterdam

No. in Survey held at
Reg. Book.

Date, First Survey

8-2-36

Last Survey

12-3-1936

(Number of Visits 4)

on the

PENTEOLA

Tons {
Gross
Net

Built at KRIMPEN A. D. USSEL

By whom built N.V. C. v. d. GIESSEN EN
ZONEN'S SCHEEPSWERVEN

Yard No. 639

When built 1936

Owners

Compagnia Shell

Port belonging to

Lisbon

Electric Light Installation fitted by N.V. ELECTROTECH. BUREAU A. DE HOOP Contract No.

When fitted 1936

ROTTERDAM

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 CURRENT Power

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 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, 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 MOTORROOM

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

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

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 micanile 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 YES, 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

FOR THE DYNAMO AND EACH OUTGOING CIRCUIT: 2 SINGLE POLE FUSES

AND 1 DOUBLE POLE SWITCH

Instruments on main switchboard 1 ammeters 1 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

EARTH DETECTOR LAMPS

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



© 2021

Lloyd's Register
Foundation

010755-010765-0029 1/2

Cables: Single, twin, concentric, or multicore SINGLE & TWIN 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 2 VOLTS

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

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 SUPPORTED BY METAL CLIPS,
ON DECK AND WHERE NECESSARY PROTECTED BY TUBES. ✓

If cables are run in wood casings, are the casings and caps secured by screws _____, are the cap screws of brass _____, are the cables run in separate grooves _____. 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*

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

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 ✓

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

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

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

Secondary Batteries, are they constructed and fitted as per Rule

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

FITTED IN GASTIGHT BOXES ✓, how are the cables led
IN GASTIGHT TUBES ✓
IN CHARTROOM ✓
where are the controlling switches situated

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

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 _____, are the coils self-contained and readily removable for replacement _____, are the brushes, brush holders, terminals and lubricating arrangements as per Rule _____, are the motors placed in well-ventilated compartments in which inflammable gases cannot accumulate and clear of all inflammable material _____, are they protected from mechanical injury and damage from water, steam or oil _____, are their axes of rotation fore and aft _____, 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. YES ✓

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

PARTICULARS OF GENERATING PLANT

DESCRIPTION OF GENERATOR.	No of	RATED AT				DRIVEN BY	WHERE DRIVEN BY AN INTERNAL COMBUSTION ENGINE.	
		Kilowatts.	Volts.	Ampères.	Revs. per Min.		Fuel Used.	Flash Point of Fuel.
MAIN	1	4	110	37	"STEAM ENGINE"			
AUXILIARY								
EMERGENCY								
ROTARY TRANSFORMER								

LIGHTING AND HEATING CONDUCTORS.

Ref. No.	DESCRIPTION.	No. of Conductors.	Effective Area of each Conductor. Sq. Ins.	COMPOSITION OF STRAND.		Total Maximum Current. Amperes.	Approximate Length. (Lead and Return.) Feet.	Insulated with	HOW PROTECTED.
				No.	Diameter.				
	MAIN GENERATOR... ..	1	16	7	1.71	37	60	RUBBER	LEAD COVERED AND ARMOURD.
	EQUALISER CONNECTIONS								
	AUXILIARY GENERATOR								
	EMERGENCY GENERATOR								
	ROTARY TRANSFORMER... ..								
	AUXILIARY SWITCHBOARDS								
	ENGINE ROOM	1	1 ⁵	1	1.39	1.1	60	"	"
	BOILER ROOM								
	ACCOMMODATION	1	1 ⁵	1	1.39	0.6	60	"	LEAD COVERED
	MOTORROOM	1	4	7	0.86	8	60	"	LEAD COVERED AND ARMOURD
	OFFICERS & WHEELHOUSE	1	4	7	0.86	15	90	"	"
	NAVIGATION	1	4	7	0.86	2	110	"	"
	CARGO	1	2 ⁵	1	1.79	9	70	"	"
	FORESHIP	1	4	7	0.86	3	360	"	"
	WIRELESS								
	SEARCHLIGHT								
	MASTHEAD LIGHT... ..	1	1 ⁵	1	1.39	2	270	"	"
	SIDE LIGHTS	1	1 ⁵	1	1.39	0.5	30	"	"
	COMPASS LIGHTS	1	1 ⁵	1	1.39	0.2	30	"	"
	POOP LIGHTS	1	1 ⁵	1	1.39	0.5	150	"	"
	CARGO LIGHTS	1	1 ⁵	1	1.39	2	200	"	"
	ARC LAMPS								
	HEATERS								

MOTOR CONDUCTORS.

[illegible]

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. ELECTROTECHN. BUREAU A. DE HOOP ROTTERDAM Electrical Engineers.

Date 10-3-36

N.V. ELECTROTECHNISCH BUREAU

A. DE HOOP

COMPASSES.

Distance between electric generators or motors and standard compass

40 FEET

Distance between electric generators or motors and steering compass

32 FEET

The nearest cables to the compasses are as follows:—

A cable carrying 0.2 Ampères 2 feet from standard compass 2 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.

NAUWKEUZE VERBODTSCHEP
G. VAN DER GIESSEN & ZONEN'S
Scheepswerven

Builder's Signature.

Date

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

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

This installation has been made and fitted in accordance with the approved plan. Society's Rules and Secretary's letter. It has been tested under full working condition and was found satisfactory and merits in my opinion the approval of the Committee.

Noted

Min

30.3.36

Total Capacity of Generators 4 Kilowatts.

The amount of Fee ...

£ 60.00

When applied for, 27.3.1936

Travelling Expenses (if any) £

2

When received, 21.4.1936

Surveyor to Lloyd's Register of Shipping.

Committee's Minute

FRI. 3 APR 1936

Assigned

See F.C. Rep.



© 2021

Lloyd's Register Foundation