

YACHT.

15816

Rpt. 13.

No. ~~15370~~

REPORT ON ELECTRIC FITTINGS.

(OTHER THAN FOR THE PROPULSION OF THE VESSEL) 21 JUL 1926
Received at London Office.....

Date of writing Report 2 July 1926 When handed in at Local Office 19 Port of Rotterdam
No. in Survey held at Alphen Td Rijn Date, First Survey 28-4-26 Last Survey 1-6-1926
Reg. Book. Steel Aux. Schooner Yacht. VIGILANTER (Number of Visits.....)
on the Steel Aux. Schooner Yacht. VIGILANTER Tons { Gross
Net
Built at Alphen Td Rijn By whom built Mr. A. Pannevis Yard No. 406 When built 1926
Owners Mr. D.G.v. Beuningen Port belonging to Rotterdam
Electric Light Installation fitted by Mr. van Seventer Contract No. When fitted 1926

System of Distribution Two conductors ✓
Pressure of supply for Lighting 110 volts, Heating 110 volts, Power 110 volts.
Direct or Alternating Current, Lighting Direct ✓ Power 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 yes ✓
Generators, do they comply with the requirements regarding overload yes ✓, are they compound wound shunt ✓
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
Are all terminals accessible and clearly marked yes ✓, are they so spaced or shielded that they cannot be accidentally earthed, or short circuited yes ✓ Are the lubricating arrangements of the generators as per Rule yes ✓
Position of Generators in engine room ✓, 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 yes ✓, are the generators protected from mechanical injury and damage from water, steam or oil yes ✓
are their axis 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
Main Switch Boards, where placed in engine 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 ✓, if situated near unprotected woodwork or other combustible material, state distance of same horizontally from or vertically above the switchboards and yes ✓
are they protected from mechanical injury and damage from water, steam or oil yes ✓
are they constructed wholly of durable, incombustible 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 connected to one pole insulated from the slab with mica or micamite and the slab similarly insulated from its framework yes ✓, and is the frame effectively earthed yes ✓ Are the following fittings as per Rule, viz.:— spacing or shielding of live parts, accessibility of all parts, absence of fuses on back of board yes ✓, proportion of omnibus bars 0.06 sq" ✓, individual fuses to voltmeter, pilot or earth lamp yes ✓, connections of switches
Main Switchgear, description of switchgear for each generator and each outgoing circuit, and arrangement of equalizer switches Quick shut off knife ✓
Instruments on main switchboard two ammeters one 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 lamps ✓
Switches, Circuit Breakers and Fusible Cut-outs, do these comply with the requirements of the Rules yes ✓
Section and Distribution Boards, is the construction, protection, insulation, material, and position of these as per rule yes ✓



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W320-0015 (1/2)

YACHT.

Insulation of Cables, state type of cables, single or twin single & twin are the cables insulated and protected as per Tables III or IV of the Rules yes

Fall of Pressure, state maximum between bus bars and any point of the installation under maximum load 1 to 2%

Cable Sockets and other connections, are the ends of all cables having a sectional area of 0.007 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.

Support and Protection of Cables, *state how the cables are supported and protected* *with copper strips*

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 no. If armoured and lead covered cables are secured by metal clips, are the clips spaced as per Table VI 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 *in special joint boxes screwed*

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 Positions, 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 or wood*

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

Alternative Lighting _____, are their connections made as per Rule _____.

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

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 yes, are separate screens provided for the use of oil and electric side lights yes

are separate oil lanterns provided for the mast head lights and side lights 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 *water tight*
double glass, how are the cables led

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

Arc 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 axis 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 yes, 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 as per Rule 4415

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 *yes*

PARTICULARS OF GENERATING PLANT.

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	5.5	110	50	Thermicroft motor	kerosene		
AUXILIARY								
EMERGENCY								
ROTARY TRANSFORMER								

LIGHTING AND HEATING CONDUCTORS.

[illegible]

MOTOR CONDUCTORS.

Ref. No.	DESCRIPTION.	No. of Motors.	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.				
	BALLAST PUMP								
	MAIN BILGE LINE PUMPS	1	0.007	7	0.036	16	30	gummi	lead
	GENERAL SERVICE PUMP								
	EMERGENCY BILGE PUMP								
	SANITARY PUMP								
	CIRC. SEA WATER PUMPS								
	CIRC. FRESH WATER PUMPS								
	AIR COMPRESSOR								
	FRESH WATER PUMP								
	ENGINE TURNING GEAR								
	ENGINE REVERSING GEAR								
	LUBRICATING OIL PUMPS								
	OIL FUEL TRANSFER PUMP								
	WINDLASS								
	WINCHES, FORWARD								
	WINCHES, AFT								
	STEERING GEAR								
	WORKSHOP MOTOR								
	VENTILATING FANS								

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.

Clarence Leventhal & Co Electrical Engineers. Date *1 July 1926*

COMPASSES.

Distance between electric generators or motors and standard compass *18 feet*
Distance between electric generators or motors and steering compass
The nearest cables to the compasses are as follows :—
A cable carrying *2.5* Amperes *3* feet from standard compass *3* feet from steering compass.
A cable carrying Amperes feet from standard compass feet from steering compass.
A cable carrying Amperes 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 degrees on course in the case of the steering compass.

W. Pannier Builder's Signature. Date *18 July 26*

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 fitted in accordance with the Rules, 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. Elec. light.

W.D.
30/7/26

Total Capacity of Generators *5* Kilowatts

The amount of Fee *£60.00* : { When applied for, *19*
Travelling Expenses (if any) *£5* : { When received, *23/8/26*

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

Committee's Minute *30 JUL 1926*
Assigned *Elec. light*

111921-1-1. master.
(The Surveyors are requested not to write on or below the space for Committee's Minute.)