

Rpt. 13.

No. 81050

# REPORT ON ELECTRIC FITTINGS.

(OTHER THAN FOR THE PROPULSION OF THE VESSEL)

19 MAR 1927

Received at London Office.....

Date of writing Report

19

When handed in at Local Office

19

Port of

NEWCASTLE-ON-TYNE

No. in Survey held at

Newcastle on Tyne Date, First Survey

Last Survey

19

Reg. Book.

(Number of Visits.....)

on the

M.V. "Marpessa"

Tons

Gross

Net

Built at

Rotterdam

By whom built

Rotterdam S. Oke &amp; Co. Ltd

Yard No. 98.

When built

Owners

Port belonging to

Electric Light Installation fitted by J. H. Holmes Newcastle on Tyne. Contract No.

When fitted 1927

System of Distribution

Double wire system

Pressure of supply for Lighting

110

volts, Heating

—

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

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 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

Position of Generators

Main generator Starboard side of Eng room, Aux gen in engine room in Tween deck

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 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

Yes

Main Switch Boards, where placed

Power board fore end of engine room. Lighting board engine room

in Tween deck

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, 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 micanite 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

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

Double pole circuit breakers interlocked with equalizing switches on dynamomains. D.P. Circuit breakers on three outgoing circuits + D.P. knife switches + D.P. fuses on each outgoing circuits.

Instruments on main switchboard

5

ammeters

4

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 lamps

coupled to earth through switches fuses

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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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 *Yes*

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 ...								
	GENERAL SERVICE PUMP ...								
	EMERGENCY BILGE PUMP ...								
	SANITARY PUMP ... ..								
	CIRC. SEA WATER PUMPS ...								
	CIRC. FRESH WATER PUMPS .....								
	AIR COMPRESSOR ... ..								
	FRESH WATER PUMP ... ..								
	ENGINE TURNING GEAR ...	1	.1478	37	.072	159	260	Y.I. R	Lead on 4 atm?
	ENGINE REVERSING GEAR ...								
18HP	LUBRICATING OIL PUMPS ...	1	.1478	37	.072	146	48	50	50
7 1/2 HP	OIL FUEL TRANSFER PUMP	2	.06	19	.064	70	176+132	50	50
	WINDLASS ... ..								
	WINCHES, FORWARD ... ..								
	WINCHES, AFT ... ..								
	STEERING GEAR ... ..	2	.06	19	.064	200	240	50	50
	WORKSHOP MOTOR MAINS.	2	.06	19	.064	70	144	50	50
	VENTILATING FANS ... ..								
45HP	Cooling Water pump	1	.1964	37	.083	353	220	50	50
2HP	Workshop. Emery Wheel	1	.007	7	.036	18.6	82	50	50
2 1/2 HP	50 Drilling motor	1	.01046	7	.044	26.0	30	50	50
3HP	50 Lathe motor	1	.01046	7	.044	26.8	48	50	50
2.5HP	Oil Purifier	2	.01462	7	.052	23.0	84	50	50
3HP	Vent fan motor	2	.01046	7	.044	26.8	36	50	50
1 1/2 HP	Fuel oil purifier	1	.002	3	.036	11.0	112	50	50



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.

For J. H. HOLMES & CO.

*Oliver Holmes*

Electrical Engineers.

Date 9-3-27

#### COMPASSES.

Distance between electric generators or motors and standard compass

Distance between electric generators or motors and steering compass

The nearest cables to the compasses are as follows:—

A cable carrying Ampères feet from standard compass 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 *nil* degrees on *all* course in the case of the standard compass, and *nil* degrees on *all* course in the case of the steering compass.

ROTTERDAMSCHЕ ОРОСКОК МАТСНАРП

Onder-Directeur.

Builder's Signature.

Date 16<sup>th</sup> March 1927.

*A. V. Nape*

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.)

*The above installation (power) & engine room lighting is in accordance with the Society's Rules. The vessel is eligible in my opinion to have notation elec light, wireless.*

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

*W.D.* 4/3/27

Total Capacity of Generators 124 Kilowatts

The amount of Fee £ 32 : 14 :  
Charged on  
Travelling Expenses (if any) £ Report.

When applied for,  
9/13/27  
When received,  
19

*W.T. Badger.*

Surveyor to Lloyd's Register of Shipping.

Committee's Minute

Assigned

Im 924.—Transfer.  
(The Surveyors are requested not to write on or below the space for Committee's Minute.)



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