

Rpt. 13.

# REPORT ON ELECTRIC FITTINGS.

(OTHER THAN FOR THE PROPULSION OF THE VESSEL)

No 16574

Date of writing Report 12.6.1927 When handed in at Local Office

19

Port of Rotterdam

Received at London Office 7 JUL 1927

No. in Survey held at Rotterdam

Date, First Survey 5.4.27

Last Survey 16.6.1927

1927

Reg. Book.

on the *Steel Single Screw Motor Tanker TROCAS*

(Number of Visits 18)

Tons { Gross  
Net

Built at Rotterdam

By whom built Rott Drooga Ma

Yard No. 99

When built 1917

Owners Anglo-Saxon Petroleum

Port belonging to London

Electric Light Installation fitted by

Werns Rietsema &amp; Bouwman

Contract No.

When fitted 1925

System of Distribution

Two wire system ✓

Pressure of supply for Lighting

110

volts, Heating

volts, Power

110

volts.

Direct or Alternating Current, Lighting

direct current ✓

Power

direct current ✓

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

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 engine room near the switchboard

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 engine room near the generators

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 micaite or other non-hygroscopic insulating material, and the slab similarly insulated from its framework

✓

and is the frame effectively earthed

✓

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

a double pole quick linked knife switch for equalizer and main pole and automatic minimal single pole quick linked switch for the positive pole and for each outgoing circuit a double pole quick linked knife switch and double pole fuse

Instruments on main switchboard

5

ammeters

4

volts

✓

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

on the switchboard for lighting and two earth lamps on the switchboard for power

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 ✓



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

MOTOR CONDUCTORS.									
Ref. No.	DESCRIPTION.	No. of Motors.	Effective Area of each Conductor. Sq. Ins.	COMPOSITION OF STRAND.		Total Maximum Current. am. amp.	Approximate Length. (Local 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 ...	2	95	19	252	160	114 cll	Rubber lead covered & armoured	
	ENGINE REVERSING GEAR ...								
	LUBRICATING OIL PUMPS ...	1	25	5		19	20 cll	"	"
	OIL FUEL TRANSFER PUMP ...	1	25	5	215	60	40 cll	"	"
	WINDLASS ... ..								
	WINCHES, FORWARD ... ..								
	WINCHES, AFT ... ..								
	STEERING GEAR—								
	(a) MOTOR GENERATOR...								
	(b) MAIN MOTOR ... ..	2	25	19	247	240	110 cll	"	"
	WORKSHOP MOTOR ... ..	1	6	5	105	20	30 cll	"	"
	VENTILATING FANS ... ..								
	Cooling water pump	1	25	19	252	200	30 cll	"	"
	Oil pump	2	6	5	105	24	35 cll	"	"
	Generator	1	15	5		2	10 cll	"	"
	Refrigerator	1	4	5		16	30 cll	"	"
	Refrigerator	1	50	19	185	104	120 cll	"	"
	Electric lighting	1	9.5	19	252	144	3 cll	"	"



4

All Conductors are of annealed copper conforming to British Standard Specification No. 7. *Yes*  
The Insulated Conductors are guaranteed to withstand the immersion and resistance tests specified in the Rules.  
The foregoing is a correct description.

N. V. Van Rietschoten & Houwens'  
Electrotechnische Maatschappij.

Electrical Engineers.

Date

*30 June 1927*

#### COMPASSES.

Distance between electric generators or motors and standard compass *80 ell*

Distance between electric generators or motors and steering compass *85 ell*

The nearest cables to the compasses are as follows:—

A cable carrying *13* Ampères *9* feet from standard compass *9* feet from steering compass.

A cable carrying *25* Ampères *25* feet from standard compass *21* feet from steering compass.

A cable carrying *10* Ampères *25* feet from standard compass *21* 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 *none* degrees on *every* course in the case of the standard compass, and *none* degrees on *every* course in the case of the steering compass.

ROTTERDAMSCHЕ BROODBOEK MAATSCHAPPIJ  
DIRECTEUR

Builder's Signature.

Date *30 June 1927*

Is this installation a duplicate of a previous case *Yes* If so, state name of vessel

*MV TELENE  
" MARDESSA  
" GOLDMOUTH*

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

*This installation has been fitted in accordance with the Society's Rules, was found in a good working order when tried and meets in my opinion the Committee's approval*

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

Total Capacity of Generators *124* Kilowatts.

The amount of Fee ... £ *392.00* When applied for, *25/6* 19*27*

Travelling Expenses (if any) £ : : When received, *1/7* 19*27*

Committee's Minute *8 JUL 1927*

Assigned *Elec Light*



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