

# REPORT ON ELECTRIC FITTINGS.

(OTHER THAN FOR THE PROPULSION OF THE VESSEL)

Received at London Office 15 JUN 1925

Date of writing Report 30<sup>th</sup> May 1925 When handed in at Local Office

10 Port of HAMBURG.

No. in Survey held at

HIEL

Date, First Survey 25<sup>th</sup> FEBR. Last Survey 3<sup>rd</sup> MAY 1925

Reg. Book.

on the Steel Twin Sc Motor Tank "PERSEPHONE"

(Number of Visits 12)

Tons { Gross 8956  
Net 5041.

Built at

HIEL

By whom built FRIED. KRUPP. GERM. WERK.

Hull No. 470

When built 1915

Owners BALT-AMERIK. PETROLEUM. IMP. G.m.b.H. Port belonging to

DANZIG

Electric Light Installation fitted by FRIED. KRUPP. GERM. WERK. A.G. Contract No. — When fitted 1925.

## System of Distribution

2 wire. 2 conductor insulated, with separate conductors, except small cables (Letter E. 20.5.25)

## Pressure of supply, for Lighting

110

volts, Heating

220

volts, Power

220

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 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

yes

## Position of Generators

Engine room.

Emergency oil steam driven in evaporator room, Shell under aft.

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

✓

✓

, are the generators protected from mechanical injury and damage from water, steam or oil

yes

are their axis of rotation fore and aft

yes

, with the exception of steam driven emergency dynamo.

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

Engine room forward - elevated platform, + emergency in evaporator 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, 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

✓

, and is the

frame effectively earthed

✓

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

For each generator: A

double-pole circuit breaker with overload and reversed current trips, interlocked by equalizer switch.

For each outgoing circuit: A fuse on each pole and a single pole switch on one pole.

## Instruments on main switchboard

4. ammeters

1

voltmeters

3

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

Ohm meter and

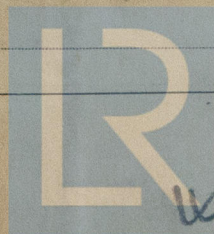
lamp - alarm - arrangement

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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W207-0093(012)



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

MOTOR CONDUCTORS.									
Ref. No.	DESCRIPTION.	No. of Motors.	Effective Area of each Conductor. Sq. In.	COMPOSITION OF STRAND.		Total Maximum Current. Amperes.	Approximate Length. (Lead and Return.) Feet.	Insulated with	HOW PROTECTED.
				No.	Diameter.				
	BALLAST PUMP ... ..	1	25	7	2.1	64	26		
	MAIN BILGE LINE PUMPS ...	2	25	7	2.1	58	32		
	GENERAL SERVICE PUMP ...								
	Back fuel oil Pump ...	1	6	1	2.75	20	25		
	Sanitary Pump ... ..	1	25	7	2.1	72	33		
	CIRC. SEA WATER PUMPS ...	1	50	19	1.85	102	15		
	CIRC. FRESH WATER PUMPS								
	Refrigerator COMPRESSOR ...	2	16	7	1.7	40	50		
	FRESH WATER PUMP ... ..	1	1.5	1	1.4	6	40		
	ENGINE TURNING GEAR ...								
	ENGINE REVERSING GEAR ...								
	LUBRICATING OIL PUMPS ...	1	16	7.	1.7	40	64	rubber	lead covered
	OIL FUEL TRANSFER PUMP ...	2	2.5	1	1.8	10	70		and armored
	WINDLASS ... ..	1	340	61	2.5	334	350		
	WINCHES, Forward ... ..	1	16	7	1.7	50	140		
	WINCHES, Aft ... ..	2	25	19	1.55	117	290		
	STEERING GEAR ... ..	2	50	19	1.85	94	130		
	WORKSHOP MOTOR ... ..	1	4	1	2.25	20	30		
	VENTILATING FANS ... ..	1	2.5	1	1.8	10	30		
	" " For G.O. ... ..	2	4	1	2.25	18	74		
	" " for G.O. ... ..	1	1.5	1	1.4	6	15		
	Heavy fuel oil separator ...	2	2.5	1	1.8	8.5	40		
	Refrig. Seawater Pump ...	1	2.5	1	1.8	6.5	3		
	Grain pump ... ..	2	2.5	1	1.8	13.5	6		
	Trimming machine ... ..	1	2.5	1	1.8	6.5	140		
	Capstan ... ..	3	70	19	2.15	117	500		
	Isolating Valve, forward ...	1	25	19	1.55	130	25		
	2 fuel oil transfer ... ..	2	25	1	1.8	8.5	80		
	Cargo Compensator ... ..	1	4	1	2.25	18	100		



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.

The Guilders are the

Electrical Engineers.

Date 30/5/25.

#### COMPASSES.

Distance between electric generators ~~and~~ and standard compass

about 70 ft.

double pole system.

Distance between electric generators ~~or~~ and steering compass

The nearest cables to the compasses are as follows:—

A cable carrying 0.5 Ampères close to feet from standard compass close to 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. with

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 course in the case of the standard compass, and nil degrees on course in the case of the steering compass.

FRIED. KRUPP  
GERMANIAWERFT  
Aktiengesellschaft

Builder's Signature.

Date 30/5/25.

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.)

Workmanship and material of fair

electric installation are of good quality. As the conductors used are of the "German Standard" the Society's Rules respecting conductors have been applied generally. The installation is fitted in accordance with the approved plans, the Secretary's letters and otherwise in conformity with the requirements of the Rules. The electric installation being built and fitted Special Survey is eligible in my opinion for record 'ELECTR. LIGHT.'

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

AWD  
9/7/25.

Total Capacity of Generators 286 Kilowatts

The amount of Fee ... £ 38 : 13 : -

When applied for,  
5/4 June 1925

Travelling Expenses (if any) £ - : -

When received,  
13/7/25

Friedrich Hill  
Surveyor to Lloyd's Register of Shipping.

Committee's Minute

Assigned

Im. 9. 22. - Transfer.  
(The Surveyors are requested not to write on or below the space for Committee's Minute.)



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