

REPORT ON ELECTRIC FITTINGS.

(OTHER THAN FOR THE PROPULSION OF THE VESSEL)

Date of writing Report 14th Jan. 1933 When handed in at Local Office

Received at London Office 18 JAN 1933

Port of BREMEN

No. in Survey held at VEGESACK
Reg. Book.Date, First Survey 7th Jan 32 Last Survey 5th Jan. 1933

(Number of Visits 13)

on the STEEL TWIN SC. VICTOR ROSS

Tons { Gross 12,424

Net 7098

Built at VEGESACK

By whom built BREMER VULKAN

Yard No. 699 When built 1933

Owners BALTIKH AMER. PETROL. IMPORT G.M.B.H.

Port belonging to DANZIG

Electric Light Installation fitted by SIEMENS-SCHUCKERTWERKE AG.

Contract No.

When fitted 1933

Is the Vessel fitted for carrying Petroleum in bulk YES

System of Distribution TWO WIRE DIRECT CURRENT

Pressure of supply for Lighting 110 volts, Heating 110 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 no, 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 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

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 Engine Room aft on elevated platform

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

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 each generator

a double pole linked switch and a fuse on each pole. For each outgoing circuit

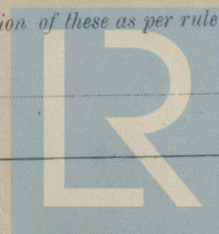
a double pole change over switch and a fuse on each pole

Instruments on main switchboard 3 ammeters 2 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 1 Ohmmeter

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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Cables: Single, twin, concentric, or multicore *single twin* are the cables insulated and protected as per Tables IV or V of the Rules *The German Standards have been applied*

Fall of Pressure, state maximum between bus bars and any point of the installation under maximum load *about 4 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 *yes*

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 *no paper insulated cables*

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, upakes 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 *partly led in strong steel cable leads and partly protected by steel iron plating*

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 *yes*. 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 *yes*

Joints in Cables, state if any, and how made, insulated, and protected *in watertight strong joint boxes*

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 *hard wood*

Earthing Connections, state what earthing connections are fitted and their respective sectional areas *none*

are their connections made as per Rule *yes*

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 *none*

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, in steering house*

has each navigation lamp an automatic indicator as per Rule *yes*

Secondary Batteries, are they constructed and fitted as per Rule *none*

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 *none*

are any fittings placed in spaces where inflammable or explosive dust or gases are liable to be present, if so, how are they protected *yes, lower bridge deck*

gas sign lamps how are the cables led *gas sign*

where are the controlling switches situated *in upper bridge deck*

Searchlight Lamps, No. of *1*, whether fixed or portable *fixed*, are their fittings as per Rule *yes*

Arc Lamps, other than searchlight lamps, No. of *none*, are their live parts insulated from the frame or case *yes*, are their fittings as per Rule *yes*

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 axes 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 *yes* and *yes*

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 *none, steel mass*

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*

PARTICULARS OF GENERATING PLANT.

DESCRIPTION OF GENERATOR.	No. of	RATED AT				DRIVEN BY	WHERE DRIVEN BY AN INTERNAL COMBUSTION ENGINE.	
		Kilowatts.	Volts.	Amperes.	Revs. per Min.		Fuel Used.	Flash Point of Fuel.
MAIN	2	20	115	174	375	Steam Engine		
AUXILIARY								
EMERGENCY								
ROTARY TRANSFORMER								

GENERATOR, LIGHTING AND HEATING CONDUCTORS.

DESCRIPTION.	CONDUCTORS.		COMPOSITION OF STRAND.		TOTAL MAXIMUM CURRENT.		Approximate Length. (Lead and Return.)	Insulated with	HOW PROTECTED.
	No. per Pole.	Total Effective Area per Pole	No.	Diameter.	In Circuit.	Rule.			
MAIN GENERATOR	1	120	61	1.59	174	174	30	RUBBER	LEAD COVERED & ARMOURED
EQUALISER CONNECTIONS									
AUXILIARY GENERATOR									
EMERGENCY GENERATOR									
GYRO COMPASS MOTOR	1	4	19	0.52	15	20	2.4	"	"
ROTARY TRANSFORMER									
ENGINE ROOM	1	8 x 1.5	1	1.38	4	7.8	30	"	"
BOILER ROOM									
AUXILIARY SWITCHBOARDS	1	120	61	1.59	174	174	36	"	"
SHORE CONNECTION	1	70	37	1.55	127	127	23.4	"	"
STATION I LIGHT	1	4	19	0.52	5	20	120	"	"
" II "	1	10	19	0.82	35	37	30	"	"
ACCOMMODATION									
STATION I POWER	1	120	61	1.59	160	174	36	"	"
" II "	1	50	19	1.83	95	95	80	"	"
GALLEY	1	70	37	1.55	115	127	2.8	"	"
TODD OIL BURNER INST.	1	70	37	1.55	120	127	97	"	"
WIRELESS	1	10	19	0.82	35	37	20	"	"
SEARCHLIGHT	1	4	19	0.52	18	20	36	"	"
MASTHEAD LIGHT	1	2.5	1	1.78	2	12.9	160	"	"
SIDE LIGHTS	1	1.5	1	1.38	2	7.8	40	"	"
COMPASS LIGHTS	1	1.5	1	1.38	1	7.8	20	"	"
POOP LIGHTS	1	2.5	1	1.78	1	12.9	180	"	"
CARGO LIGHTS	1	2.5	1	1.78	5	12.9	120	"	"
ARC LAMPS									
HEATERS .. STOVE	1	50	19	1.83	100	100	30	"	"

MOTOR CONDUCTORS.

DESCRIPTION.	No. of Motors.	CONDUCTORS.		COMPOSITION OF STRAND.		TOTAL MAXIMUM CURRENT.		Approximate Length. (Lead and Return.)	Insulated with	HOW PROTECTED.
		No. per Pole.	Total Effective Area per Pole	No.	Diameter.	In Circuit.	Rule.			
REFR. MACH	1	1	16	19	1.04	40	46	28	RUBBER	LEAD COVERED & ARMOURED
OIL SEPARATOR	1	1	4	19	0.52	16	20	88	"	"
MAIN DIESEL LUB PUMP	1	1	2.5	19	1.38	8	64	16	"	"
SMALL LATHE	1	1	2.5	19	1.38	8	64	16	"	"
GENERAL SERVICE PUMP	1	1	2.5	19	1.38	8	64	16	"	"
BIG LATHE	1	1	2.5	19	1.38	8	64	16	"	"
DRILLING MACHINE	1	1	6	19	0.64	24	30	16	"	"
SHAPING MACHINE	1	1	6	19	0.64	24	30	15	"	"
GRINDING MACHINE	1	1	2.5	1	1.78	16	16	12	"	"
DRINKING WATER PUMP	1	1	2.5	1	1.78	16	16	36	"	"
FRESH WATER PUMP	2	1	2.5	19	1.3	64	64	49	"	"
ENGINE TURNING GEAR										
ENGINE REVERSING GEAR										
LUBRICATING OIL PUMPS										
OIL FUEL TRANSFER PUMP										
WINDLASS										
WINCHES, FORWARD										
WINCHES, AFT										
STEERING GEAR										
ELECTRIC TELE-MOTOR										
(a) MOTOR GENERATOR	1	1	4	19	0.52	20	20	10	"	"
(b) MAIN MOTOR	2	1	2.5	1	1.78	16	16	8	"	"
WORKSHOP MOTOR										
VENTILATING FANS BOILERS	2	1	10	19	0.82	36	37	30	"	"
MAIN PUMPS	2	1	2.5	1	1.78	8.5	12.9	6	"	"
AUX. "	2	1	1.5	1	1.38	2.5	7.8	3.5	"	"
TRANSFORMER	1	1	2.5	1	1.78	14	12.9	6	"	"

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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.

SIEMENS-SCHUCKERTWERKE

ARTIFICELELLICHAF

HANSEATISCHE ZWEIGABTHEILUNG HAMBURG

in Vollmacht:

Electrical Engineers.

Date 14 I. 33

COMPASSES.

Distance between electric generators or motors and standard compass 8 m

Distance between electric generators or motors and steering compass 6 m

The nearest cables to the compasses are as follows:—

A cable carrying 0.5 Ampères 12 feet from standard compass 6 feet from steering compass.

A cable carrying 20. Ampères 6 feet from standard compass 10 feet from steering compass.

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

BREMER VULKAN
Schiffbau und Maschinenfabrik

Builder's Signature.

Builder's Signature.

Date 12.1.33

Is this installation a duplicate of a previous case yes If so, state name of vessel F. J. WOLFE

General Remarks (State quality of workmanship, opinions as to class, &c. This electric Installation has

been fitted in accordance with the approved plans and the requirements of the Rules. It has been tested under working condition and found to be in order. The materials used in the construction and the workmanship are of good quality. Regarding conductors the German Standards have been applied generally.

This installation is eligible in my opinion for notation of:
"ELECTRIC LIGHT"

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

Elec Light

20/1/33

Total Capacity of Generators 40 Kilowatts.

The amount of Fee ... £ 45: -

Travelling Expenses (if any) £

in London

When applied for,

16.1.1933

When received,

19.12.1933

A. Carstensen

Surveyor to Lloyd's Register of Shipping.

Committee's Minute PM. 20 JAN 1933

Assigned

Elec Light



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