

# REPORT ON ELECTRIC FITTINGS.

(OTHER THAN FOR THE PROPULSION OF THE VESSEL)

16 SEP. 1926

Received at London Office

Date of writing Report 15 SEPT. 1926 When handed in at Local Office

Port of HAMBURG

No. in Survey held at KIEL Date, First Survey 8<sup>th</sup> June Last Survey 28<sup>th</sup> August 1926  
Reg. Book. (Number of Visits 9)  
on the Steel Trawler Sc. D. V. "CALLEIOPE"Tons { Gross 8744  
Net 5026

Built at KIEL By whom built HOWALDTEWERKE Yard No. 675 When built 1926

Owners SALTISCH AMERIK. PETROL. IMP. GMBH Port belonging to DENZIG.

Electric Light Installation fitted by SCHINZIG - HAMBURG Contract No. When fitted 1926.

System of Distribution 1 wire - conductor insulated with separate conductors - except small cables.

Pressure of supply for Lighting 110 ✓ volts, Heating ✓ 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 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 Engine room Port side aft - steam driven emergency in auxiliary engine room. Stern side, is the ventilation in way of the generators satisfactory. Yes , are they clear of all inflammable material. Yesif 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 , with the exception of steam driven emergency set.

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 cylinder platform aft - steam driven emergency set in auxiliary 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 ✓  
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-hygrosopic 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. See letter. , proportion of omnibus bars. Yes

bars. Yes , individual fuses to voltmeter, pilot or earth lamp. Yes , connections of switches. Yes

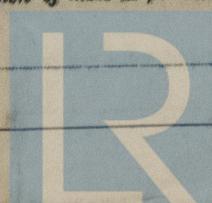
Main Switchgear, description of switchgear for each generator and each outgoing circuit, and arrangement of equalizer switches. For each generator: A fuse on each pole and a double pole linked switch. For each circuit: A fuse on each pole and a single-pole change-over switch on one pole.

Instruments on main switchboard 8 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. 2 Ohmmeters.

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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Lloyd's Register  
Foundation

01461-01473-074

Starboard set removed 840 & replaced by  
a turboset 300kW - 250Volts

PARTICULARS OF GENERATING PLANT.						
DESCRIPTION OF GENERATOR.	No. of Conductors.	RATED AT Kilowatts.	Volts.	Amperes.	Rev. per Min.	DRIVEN BY
MAIN ...	(2)	Part 195	230	850	300	250.H.P. Diesel Engine
AUXILIARY	1	25	230	109	425	
EMERGENCY	1	10	115	87	400	
ROTARY TRANSFORMER	1	15	230	65	400	2 cyl. comp. marine engine.
	1	15	230/115	130	1000	Electric motor.

WHERE DRIVEN BY AN INTERNAL COMBUSTION ENGINE.	
Fuel Used.	Flash Point of Fuel.
Diesel Oil	170°F

LIGHTING AND HEATING CONDUCTORS.								
Ref. No.	DESCRIPTION.	No. of Conductors.	Effective Area of each Conductor.	COMPOSITION OF STRAND.	Type Maximum Current, Amperes.	Approximate Length (Lead and Return.) feet.	Insulated with	HOW PROTECTED.
MAIN GENERATOR...	1x3	3 x 240	61	2.25	850	58		
EQUALISER CONNECTIONS	2	70	19	2.15	109	36		
AUXILIARY GENERATOR	2-3	50-50	19	1.85	87-65	28-21		
EMERGENCY GENERATOR	2	70	19	2.15	130	66		
ROTARY TRANSFORMER...								
AUXILIARY SWITCHBOARDS								
ENGINE ROOM								
BOILER ROOM								
ACCOMODATION								
Station N° 8 (Fowey)	2	16	7	1.7	18	260		
" N° 2 (Mitsubishi)	2	16	7	1.7	22	180		
" N° 3 (Mitsubishi)	2	16	7	1.7	58	40		
Motor Cabin N° 2.	2	10	7	1.35	34	76		
" N° II.	2	10	7	1.35	38	22		
" N° III.	2	16	7	1.7	48	30		
WIRELESS	2	6	1	2.75	18	146		
SEARCHLIGHT	2	6	1	2.75	30	128		
MASTHEAD LIGHT...	2x2	1.5	1	1.4	1	104-140		
SIDE LIGHTS...	2-2	1.5	1	1.4	1	38		
COMPASS LIGHTS...	2	1.5	1	1.4	0.5	12		
POOP LIGHTS	2	1.5	1	1.4	1	30		
CARGO LIGHTS	2	2.5	1	1.8	4	28		
ARC LAMPS								
HEATERS								

MOTOR CONDUCTORS.								
Ref. No.	DESCRIPTION.	No. of Motors.	Effective Area of each Conductor.	COMPOSITION OF STRAND.	Type Maximum Current, Amperes.	Approximate Length (Lead and Return.) feet.	Insulated with	HOW PROTECTED.
BALLAST PUMP	1	25	19	1.55	67	64		
MAIN BILGE LINE PUMPS	1	6	1	2.75	31	78		
W.T. D. BILGE PUMPS	1	2.5	1	1.8	4.6	72		
GENERAL SERVICE PUMP	1	70	19	2.15	109	72		
EMERGENCY BILGE PUMP	1	50	19	1.85	90	76		
SANITARY PUMP	1	35	19	1.55	76	60		
CIRC. SEA WATER PUMPS	1	21.540	2.61	2.25	615	38		
CIRC. FRESH WATER PUMPS	1	2.5	1	1.8	8	68		
AIR COMPRESSOR	1	2.5	1	1.8	2.25	21		
FRESH WATER PUMP	2	4	1	1.8	16	14		
ENGINE TURNING GEAR								
ENGINE REVERSING GEAR	1	2.5	1	1.8	11	32		
LUBRICATING OIL PUMPS								
OIL FUEL TRANSFER PUMP								
WINDLASS								
WINCHES, FORWARD								
WINCHES, AFT								
STEERING GEAR								
(a) MOTOR GENERATOR	1	95	19	2.5	160	64		
(b) MAIN MOTOR	1	120	37	2.05	180	60		
WORKSHOP MOTOR	1	4	1	2.25	20	16		
VENTILATING FANS	1	2.5	1	1.8	4.6	14		
TRACTING PUMPS	2	3.240	2.61	2.25	520	28		
YEARLY TRANSFER PUMPS	2	2.5	1	1.8	4.6	6		
• PIPERS	2	2.5	1	1.8	16	15		
• CIRCULATING PUMPS	2	2.5	1	1.8	4.6	14		
COMPRESSOR REFRIGERATOR	1	6	1	2.75	31	26		
DRILLING MACHINES	1	2.5	1	1.8	7	6		
SHAPES	1	0.5	1	1.8	11	8		
Welding Jaws - Gold Head Room	2	2.5	1	1.8	4.6	28-42		

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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.

Schliffs-Installation Aktiengesellschaft

Zweigniederlassung Hamburg

i.v. Karschen

Electrical Engineers.

Date 10/9/26

COMPASSES.

Distance between electric generators or motors and standard compass 68 m.

Distance between electric generators or motors and steering compass 68 m.

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 v Ampères feet from standard compass feet from steering compass.

A cable carrying v 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 course in the case of the standard compass, and nil degrees on course in the case of the steering compass.

HOWALDTSWERKE

fpa (Bahr)

Builder's Signature.

Date 10/9/26.

Is this installation a duplicate of a previous case Yes If so, state name of vessel "TRALIA" - "TRANIER"

General Remarks (State quality of workmanship, opinions as to class, &c.) Workmanship and material of this

Electric Installation are of good quality. All the conductors used are of the "German Standard" the "British" Rules respecting conductors have been applied generally. The installation has been built and fitted under Special Survey in accordance with the approved plan, the Surveyor's letter and otherwise in conformity with the requirements of the Rules and is eligible in my opinion for record ELECT. LIGHT.

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

15/2/26 Received by  
Surveyor to Lloyd's Register of Shipping  
Friedrich Hiltz

18/9/26

Total Capacity of Generators 40 Kilowatts.

Lm.1.20 - Transfer.  
(The Surveyors are requested not to write on or below the space for Committee's Minute.)

The amount of Fee £ 42:10

When applied for,  
25/8/1926

Travelling Expenses (if any) £

When received,  
19

Friedrich Hiltz  
Surveyor to Lloyd's Register of Shipping.

Committee's Minute

Assigned



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