

Rpt. 13.

No. 21573

REPORT ON ELECTRIC FITTINGS.

(OTHER THAN FOR THE PROPULSION OF THE VESSEL)

Received at London Office

-4 NOV 1932

Date of writing Report 1 Rept 1932 When handed in at Local Office

19

Port of

Rotterdam

No. in Survey held at

Rotterdam

Date, First Survey

1 March 32

Last Survey

26 Oct 1932

Reg. Book.

(Number of Visits... 8)

on the *Hul Crew vessel* TARANA (TRAWLER)

Tons

Gross 225.26

Net 135.42

Built at

Rotterdam

By whom built

Hoch-Schupmann

Yard No.

407

When built

1932

Owners

Hoch-Schupmann & Co. N.V.

Port belonging to

Rotterdam

Electric Light Installation fitted by

Gronwald v.d. Poll & Co. Electro-technische Fabrik

Contract No.

When fitted 1932

Is the Vessel fitted for carrying Petroleum in bulk

no

System of Distribution

double wiring 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 compounded 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

one port side motor room - one for side motor room

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

no woodwork

✓

, 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 motor room port side near dynamo

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

yes

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

double pole quick break knife for dynamo's, the outgoing circuits with double pole quick break knife overswitched

Instruments on main switchboard

2

ammeters

2

volts meters

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

in series the middle point connected with earth

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 are the cables insulated and protected as per Tables IV or V of the Rules yes

Fall of Pressure, state maximum between bus bars and any point of the installation under maximum load 1/2 Volt

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 yes

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, uptakes 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 with iron clips

If cables are run in wood casings, are the casings and caps secured by screws ✓, are the cap screws of brass ✓, are the cables run in separate grooves ✓. 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 ✓

Joints in Cables, state if any, and how made, insulated, and protected no joints

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 vulcan fibre and lead

Earthing Connections, state what earthing connections are fitted and their respective sectional areas ✓

are their connections made as per Rule ✓

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 ✓

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

has each navigation lamp an automatic indicator as per Rule yes

Secondary Batteries, are they constructed and fitted as per Rule ✓

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 yes

are any fittings placed in spaces where inflammable or explosive dust or gases are liable to be present, if so, how are they protected no

how are the cables led ✓

where are the controlling switches situated in chartroom

Searchlight Lamps, No. of 6, whether fixed or portable fixed, are their fittings as per Rule yes

Arc Lamps, other than searchlight lamps, No. of ✓, are their live parts insulated from the frame or case ✓, are their fittings as per Rule ✓

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 ✓ if not of this type, state distance of the combustible material horizontally or vertically above the motors ✓ and ✓

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


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 above 150° F

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.	Ampères.	Revs. per Min.		Fuel Used.	Flash Point of Fuel.	
MAIN ...	1	9	110	82	1000	oil motor	tolan oil	above 150° F.	
AUXILIARY ...	1	70	110	82	1500	"	"	"	
EMERGENCY ...									
ROTARY TRANSFORMER	2nd 88								

GENERATOR, LIGHTING AND HEATING CONDUCTORS.									
DESCRIPTION.	CONDUCTORS.		COMPOSITION OF STRAND.		TOTAL MAXIMUM CURRENT. AMPERES.		Approximate Length. (Lead and Return.) Feet.	Insulated with	HOW PROTECTED.
	No. per Pole.	Total Effective Area per Pole Sq. Ins.	No.	Diameter.	In Circuit.	Rule.			
MAIN GENERATOR ...	1	50 ^m / _m	19	1.83	82	99.3	10 feet.	rubber	lead and iron
EQUALISER CONNECTIONS ...									
AUXILIARY GENERATOR ...	1	50 ^m / _m	19	1.83	82	99.3	25 feet.	"	"
EMERGENCY GENERATOR ...									
ROTARY TRANSFORMER	MOTOR								
ENGINE ROOM...	GENERATOR...								
BOILER ROOM...									
AUXILIARY SWITCHBOARDS ...									
Chartroom	1	4 ^m / _m	7	0.86	3	21.8	30 feet.	"	"
Alt.	1	4	7	0.86	8	21.8	35 "	"	"
Deck	1	4	7	0.86	8	21.8	35 "	"	"
Handwheel	1	31							
motor									
ACCOMODATION ...									
WIRELESS ...	1	10 ^m / _m	7	1.35	20	38.2	40 "	"	"
SEARCHLIGHT each...	1	2 ^m / _m	7	0.86	2	15.1	± 20 each	"	"
MASTHEAD LIGHT ...	1	1 ^m / _m	1	1 1/2	1/3	9	± 40 "	"	"
SIDE LIGHTS ...	1	1 ^m / _m	1	1 1/2	1/3	9	± 10 "	"	"
COMPASS LIGHTS ...	1	1 ^m / _m	1	1 1/2	1/3	9	± 10 "	"	"
POOP LIGHTS ...									
CARGO LIGHTS ...									
ARC LAMPS ...									
HEATERS ...	1	2 1/2	7	0.86	10	15.1	± 60 "	"	"

MOTOR CONDUCTORS.										
DESCRIPTION.	No. of Motors.	CONDUCTORS.		COMPOSITION OF STRAND.		TOTAL MAXIMUM CURRENT. AMPERES.		Approximate Length. (Lead and Return.) Feet.	Insulated with	HOW PROTECTED.
		No. Per Pole.	Total Effective Area per Pole Sq. Ins.	No.	Diameter.	In Circuit.	Rule.			
BALLAST PUMP ...										
MAIN BILGE LINE PUMPS ...										
GENERAL SERVICE PUMP ...	1	1	50	19	1.83	60	99.3	20 ft	rubber	lead and iron
EMERGENCY BILGE PUMP ...										
SANITARY PUMP ...										
CIRC. SEA WATER PUMPS ...										
CIRC. FRESH WATER PUMPS...										
AIR COMPRESSOR ...										
FRESH WATER PUMP ...										
ENGINE TURNING GEAR...										
ENGINE REVERSING GEAR ...										
LUBRICATING OIL PUMPS ...	1	10	10 ^m / _m	7	1.35	32	38.02	20 feet	rubber	lead and iron
OIL FUEL TRANSFER PUMP...										
WINDLASS hand wheel	1	1	400	61	2.89	308	394.3	15 "	"	"
WINCHES, FORWARD ...										
Hand wheel	1	1	50	19	1.83	60	99.3	20 "	"	"
WINCHES, AFT ...										
STEERING GEAR—										
(a) MOTOR GENERATOR ...										
(b) MAIN MOTOR ...										
WORKSHOP MOTOR ...										
VENTILATING FANS ...										



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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.

Electrical Engineers.

Rotterdam
Date October 18th
1932

COMPASSES.

Distance between electric generators or motors and standard compass

40 feet.

Distance between electric generators or motors and steering compass

40 feet.

The nearest cables to the compasses are as follows:—

A cable carrying $\frac{1}{2}$ Ampères 8 feet from standard compass 8 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 any course in the case of the standard compass, and nil degrees on any course in the case of the steering compass.

N.V. MACHINEFABRIEK & SCHEEPSWERF
van BOSMIT Jr., ROTTERDAM.

Builder's Signature.

Date 2/11 '32

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 electric plant has been fitted in accordance with the approved plan and Society's Rules. It has been tested during a trial trip and was found working satisfactorily and much in my opinion the approval of the Committee.

The report on the power plant of this vessel will follow in due course.

Total Capacity of Generators 10 Kilowatts.

The amount of Fee ...

£ 19 0.00

When applied for,

19.

Travelling Expenses (if any) £

When received,

2012. 19 22

Surveyor to Lloyd's Register of Shipping.

Committee's Minute

Assigned see minute on

Rot. Rpt 21573 f



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To await further report on power circuits

Im. 11.20. — Transfer.

(The Surveyors are requested not to write on the space for Committee's Minute.)