

23 APR 1928

C

Rpt. 13.

No. 1791

REPORT ON ELECTRIC FITTINGS

(OTHER THAN FOR THE PROPULSION OF THE VESSEL)

Date of writing Report *April 13rd 1928* When handed in at Local Office *April 14th 1928* Port of *Rotterdam* Received at London Office.....

No. in Survey held at *Bolnes* Date, First Survey *16-2-28* Last Survey *29-3-1928*
Reg. Book. (Number of Visits.....)

on the *Motor vessel "Skelljunger"* Tons {Gross *147.08*
Net *74.88*

Built at *Bolnes* By whom built *Pot Bros* Yard No. *800* When built *1928*

Owners *Holubafjelagio Shell A.* Port belonging to *Reykjavik Iceland*

Electric Light Installation fitted by *N.V. Groeneveld, Van der Poel & Co's* Contract No. *Electrotechnische Fabriek* When fitted *March 1928*

System of Distribution *Two conductors*

Pressure of supply for Lighting *110* volts, Heating *12* volts, Power _____ 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*

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 portside*
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 *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 _____, individual fuses to voltmeter, pilot or earth lamp *yes*, connections of switches _____

Main Switchgear, description of switchgear for each generator and each outgoing circuit, and arrangement of equalizer switches

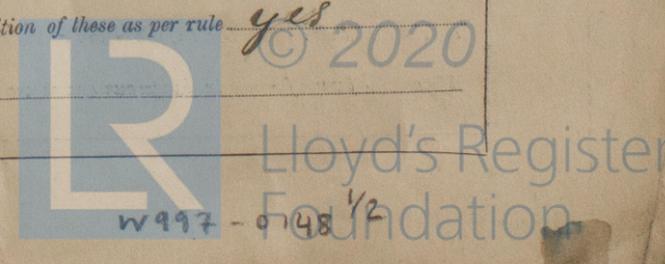
double pole switch, quick shut off.

Instruments on main switchboard *1* ammeters *1* 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 *with earth lamp*
two lamps.

Switches, Circuit Breakers and Fusible Cut-outs, do these comply with the requirements of the Rules *yes*

Point Boxes Section and Distribution Boards, is the construction, protection, insulation, material, and position of these as per rule *yes*



Cable Single, twin, concentric, or multicore none are the cables insulated and protected as per Tables IV or V of the Rules yes

Falot Pressure, state maximum between bus bars and any point of the installation under maximum load 1 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

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, 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 galvanized iron pipes clips and protected where necessary in galvanized iron pipes.
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 Soldered, insulated by gummi and insulating band, protected by watertight iron 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 wood and lead.

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

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 yes

Fittings, are all fittings on weather decks, in stokeholds and engine rooms and where 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 yes, where are the controlling switches situated yes

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

Arc Lamps, other than searchlight lamps, No. of 1, 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 yes

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.	Amps.	Revs. per Min.		Fuel Used.	Flash Point of
MAIN	1	3 kW	110 V	27.2 A	500	Horizontal Motor	oil	above 150
AUXILIARY	1	2 kW	12 V	167	500	"	"	"
EMERGENCY								
ROTARY TRANSFORMER								

LIGHTING AND HEATING CONDUCTORS.

Ref. No.	DESCRIPTION.	No. of Conductors.	Effective Area of each Conductor. Sq. Ins.	COMPOSITION OF STRAND.		Total Maximum Current. Am. area.	Approximate Length. (Lead and Return.) Feet.	Insulated with	HOW PROTECTED.
				No.	Diameter.				
1	MAIN GENERATOR...light		16 sq in	7	0.86	27.2	40 ft	rubber	lead and iron
	EQUALISER CONNECTIONS								
1	AUXILIARY GENERATOR Heating		95 sq in	19	2.53	160 A	50 ft	"	"
	EMERGENCY GENERATOR								
	ROTARY TRANSFORMER								
	AUXILIARY SWITCHBOARDS								
	ENGINE ROOM		2 x 1 1/2 sq in			6 A		"	"
	BOILER ROOM							"	"
	ACCOMMODATION		1 x 1/2 sq in			10 A		"	lead
	WIRELESS								
	SEARCHLIGHT								
	MASTHEAD LIGHT		2 x 1/2 sq in			1/3 A	90 feet	"	lead and iron
	SIDE LIGHTS		2 x 1/2 sq in			1/3 A	15 "	"	"
	COMPASS LIGHTS		2 x 1/2 sq in			1/3 A	10 "	"	"
	POOP LIGHTS								
	CARGO LIGHTS								
	ARC LAMPS								
4	HEATERS		95 sq in	19	2.53	160 A	50 ft	"	"

MOTOR CONDUCTORS.

Ref. No.	DESCRIPTION.	No. of Motors.	Effective Area of each Conductor. Sq. Ins.	COMPOSITION OF STRAND.		Total Maximum Current. Am. area.	Approximate Length. (Lead 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								
	ENGINE REVERSING GEAR								
	LUBRICATING OIL PUMPS								
	OIL FUEL TRANSFER PUMP								
	WINDLASS								
	WINCHES, FORWARD								
	WINCHES, AFT								
	STEERING GEAR								
	(a) MOTOR GENERATOR								
	(b) MAIN MOTOR								
	WORKSHOP MOTOR								
	VENTILATING FANS								

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

FISMAAL ROTTERDAM
 N.V. Groeneveld, Van der Poll & Co's
 Electrotechnische Fabriek

Electrical Engineers.

Date April 3rd 1928

COMPASSES.

Distance between electric generators or motors and standard compass 30 feet

Distance between electric generators or motors and steering compass 36 "

The nearest cables to the compasses are as follows:—

A cable carrying 1/3 Amperes 8 feet from standard compass 10 feet from steering compass.

A cable carrying 1/3 Amperes 8 feet from standard compass 10 feet from steering compass.

A cable carrying — Amperes — 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 nihil degrees on every course in the case of the standard compass, and nihil degrees on every course in the case of the steering compass.

SCHEEPSBOUWWERF GEBR^s POT.

W. van der Meer

Builder's Signature.

Date

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. This installation has been fitted in accordance with the Rules and found in good working condition when tried and merits in my opinion the Committee's approval.

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

J. D.
27/4/28

Total Capacity of Generators 5 Kilowatts.

The amount of Fee ... £ 60.00 : When applied for, 14 1928
 Travelling Expenses (if any) £ — : When received, 19/4 1928

C. H. Bourne
 Surveyor to Lloyd's Register of Shipping.

Committee's Minute

FRI. 27 APR 1928

Assigned

Elec. Lt.

Imp. 26.—Transfer. (The Shareholders are requested not to file on or debit to the special or Committee's Minutes)



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