

REPORT ON ELECTRIC FITTINGS.

(OTHER THAN FOR THE PROPULSION OF THE VESSEL)

Received at London Office -8 JUL 1936

Date of writing Report 1 Juli 1936. When handed in at Local Office 10 Port of Rotterdam.

No. in Survey held at Flushing Date, First Survey 25-3-36 Last Survey 30-3-1936
Reg. Book. (Number of Visits... 10)

on the M.S. "Erinna." Tons { Gross 6232
Net 3590

Built at Vlissingen. By whom built "de Schelde". Yard No. 202 When built 1936.

Owners Peter M. van der Kolk Port belonging to G. van Gerven

Electric Light Installation fitted by N.V. van Rietschalen & Houwens. Contract No. When fitted 1936.

System of Distribution Double wired.

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, is an adjustable regulating resistance fitted in series with each shunt field

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, on S.B. side. ✓

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

Earthing, are the bedplates and frames of the generating plant efficiently earthed Yes. ✓ are the prime movers and their respective generators in metallic contact

Main Switch Boards, where placed near the generators, in the 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-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

, accessibility of all parts, absence of fuses on back of board, 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 for each generator

for double pole fuses and a double pole switch. ✓

Instruments on main switchboard two ✓ ammeters two ✓ 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

two earth lamps. ✓

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. ✓

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 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

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 in cabins lead covered; on deck lead covered and armoured in iron pipes; in engine room lead covered and armoured secured by metal clips ✓
 If cables are 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

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 lead or hard wood ✓

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 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

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 two in pumproom, in gastight boxes exterior ✓
 where are the controlling switches situated exterior ✓

Searchlight Lamps, No. of portable ✓, whether fixed or portable portable ✓, 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 no ✓
 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 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.	Ampères.		Revs. per Min.	Fuel Used.
MAIN	2	16	110	145	one steam and one comb. engine.	Yes	
AUXILIARY							
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 Ampères.	Approximate Length (Lead and Return.) Feet.	Insulated with	HOW PROTECTED.
				No.	Diameter in In.				
	MAIN GENERATOR S.	1	95 p	37	1.83	150/145	10 and 20 Mtr.	rubber lead covered and armoured.	
	EQUALISER CONNECTIONS								
	AUXILIARY GENERATOR								
	EMERGENCY GENERATOR								
	ROTARY TRANSFORMER								
	AUXILIARY SWITCHBOARDS								
	ENGINE ROOM								
	BOILER ROOM								
	ACCOMMODATION								
	WIRELESS		16 p	7	1.71	60/50	150 Mtr.	"	"
	SEARCHLIGHT		35 p	19	1.53	100/80	240	"	"
	MASTHEAD LIGHT		1.5 p	1	1.38	9	160	"	"
	SIDE LIGHTS		1.5 p	1	1.38	9	25	"	"
	COMPASS LIGHTS		1.5 p	1	1.38	9	15	"	"
	POOP LIGHTS		1.5 p	1	1.38	9	200	"	"
	CARGO LIGHTS								
	ARC LAMPS								
	HEATERS								

MOTOR CONDUCTORS.

Ref. No.	DESCRIPTION.	No. of Motors.	Effective Area of each Conductor Sq. Ins.	COMPOSITION OF STRAND.		Total Maximum Current Ampères.	Approximate Length (Lead and Return.) Feet.	Insulated with	HOW PROTECTED.
				No.	Diameter in In.				
	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	1	50 p	19	1.83	116/99	40 Mtr.	rubber lead covered and armoured.	
	ENGINE REVERSING GEAR								
	LUBRICATING OIL PUMPS	1	4 p	7	0.86	22/16	34	"	"
	OIL FUEL TRANSFER PUMP	1	1.5 p	1	1.38	10/6	30	"	"
	WINDLASS								
	WINCHES, FORWARD								
	WINCHES, AFT								
	STEERING GEAR								
	(a) MOTOR GENERATOR								
	(b) MAIN MOTOR								
	WORKSHOP MOTOR								
	VENTILATING FAN	1	4 p	7	0.86	22/16	30	"	"
	Drill	1	4 p	7	0.86	22/16	5	"	"
	Lathe	1	2.5 p	1	1.79	15/12	25	"	"
	Grind-stone	1	6 p	7	1.95	30/24	15	"	"

MAX. AMP. LLOYDS. -- 30/24 -- TOTAL MAX. AMP.

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.

Van Rietschoten & Houweas'
 Elektrotechnische Maatschappij, N.V.

Electrical Engineers.

Date 1/7-36

COMPASSES.

Distance between electric generators or motors and standard compass 70 Mtr.
 Distance between electric generators or motors and steering compass " "
 The nearest cables to the compasses are as follows:—
 A cable carrying 14,5 Ampères 5 Mtr. feet from standard compass 3,5 Mtr. feet from steering compass.
 A cable carrying 15,5 Ampères 2,5 " feet from standard compass 2 " feet from steering compass.
 A cable carrying 0,09 Ampères 0,3 " feet from standard compass 0,3 " 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 0 degrees on every course in the case of the standard compass, and 0 degrees on every course in the case of the steering compass.

N.V. Kon. Mil. „De Schelde“

Builder's Signature

Date 6-JUL 1936

Is this installation a duplicate of a previous case Yes in principal If so, state name of vessel MV Eulota
 MV Eterna

General Remarks (State quality of workmanship, opinions as to class, &c. This installation has been)

fitted in accordance with the approved plan, Society's Rules and Secretary's letters, material tested as required and workmanship good. The whole has been examined under full working condition and found in order and merits in my opinion the approval of the Committee

Noted

mm

10.7.36

R.I.M.

Total Capacity of Generators 32 Kilowatts.

The amount of Fee ... £ 276.00

Travelling Expenses (if any) £ —

When applied for, 24.7.1936
 When received, 29.7.1936

Y. J. Oetova
 Surveyor to Lloyd's Register of Shipping.

Committee's Minute

TUE. 14 JUL 1936

Assigned

See other J.E. Ref. 24647

Im. 1.27.—Transfer.
 (The Surveyors are requested not to write on or below the space for Committee's Minute.)



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