

31 AUG 1960

Rpt. 13.

No. F.E.M.022

# REPORT ON ELECTRICAL EQUIPMENT.

(OTHER THAN FOR THE PROPULSION OF THE VESSEL)

Received at London Office

Date of writing Report 25-7-1960 When handed in at Local Office 26-7-1960 Port of Gdańsk

No. in Survey held at Gdynia Date, First Survey 10-2-60 Last Survey 24-6-60  
Reg. Book. (No. of Visits 13) 1006

on the M.V. "CHOCHLIK" Tons }  
Stocznia im. Komuny }  
Built at Gdynia By whom built Paryskiej w Gdynia Yard No. B57/4 When built 1960-6  
Owners Polish Government Port belonging to Szczecin  
Installation fitted by Shipyard Electrical Dept. When fitted 1960-6

Is vessel equipped for carrying Petroleum in bulk No. Is vessel equipped with D.F. Yes. E.S.D. Yes. Gy. C. Yes. Sub. Sig. No. Radar Yes.

Plans, have they been submitted and approved Yes. System of Distribution 2 wire D.C. Voltage of Lighting 220

Heating - Power 220 D.C. or A.C., Lighting - Power - If A.C. state frequency -

Prime Movers, has the governing been found as per Rule when full load is thrown on and off Yes. Are turbine emergency governors fitted with a trip switch - Generators, are they compound wound Yes, and level compounded under working conditions Yes

Are the generators arranged to run in parallel Yes Is the compound winding connected to the negative or positive pole Positive

Have machines 100 kw. and over been inspected by the Surveyors during manufacture and testing - Have certificates of test for machines

under 100 kw. been supplied and the results found as per Rule Yes. Position of Generators Engine Room floor  
level, For'd Port, For'd Centre, For'd Stbd.

is the ventilation in way of generators satisfactory Yes. are they clear of inflammable material and protected from mechanical injury and

damage from water, steam and oil Yes. Switchboards, where are main switchboards placed Engine room floor  
level, port forward side

are they in accessible positions, free from inflammable gases and acid fumes and protected from mechanical injury and damage from water, steam and oil Yes, what insulation is used for the panels Dead front board, fittings mounted in insulated bases, if of synthetic insulating

material is it an Approved Type - if of semi-insulating material (slate or marble) are all conducting parts insulated therefrom as per Rule - Is the construction as per Rule, including locking of screws and nuts Yes. Description of Main Switchgear

for each generator and arrangement of equaliser switches Triple pole circuit breakers with overload & reverse current relay.

and the switch and fuse gear (or circuit breakers) for each outgoing circuit Rotary switches & fuses

Are compartments containing switchboards composed of fire-resisting material or lined as per Rule Yes Instruments on main switchboard 7

ammeters 3 voltmeters - synchronising devices. For compound machines in parallel are the ammeters and reverse current protection devices connected on the pole opposite to the equaliser connection Yes. Earth Testing, state means provided

Voltmeter-megohmmeter Preference Tripping, state if provided No. and tested -

Switches, Circuit Breakers and Fuses, are they as per Rule Yes. are the fuses an Approved Type Yes.

make of fuses Polish State factories BM WTO I & II are all fuses labelled Yes. If circuit breakers are provided for the generators, at what overload do they operate B1 GSZ 15 Sec delay at 215amp (115% Fl), and at what current do the reverse current protective

devices operate 20 Amps Cables, are they insulated and protected as per Rule Yes.

if otherwise than as per Rule are they of an Approved Type - state maximum fall of pressure between bus bars and any point under maximum load less than 6% volts. Are all paper insulated and varnished cambric insulated cables sealed at the ends -

Are all the cable runs in accessible positions not exposed to drip or accumulation of water or oil, high temperatures or risk of mechanical damage Yes, are any cables laid under machines or floorplates Yes, if so, are they adequately protected Yes State

type of cables (if in conduit this should also be stated) in machinery spaces LC WB, galleys LC WB.

and laundries LC WB State how the cables are supported or protected Carried on cable trays or securely clipped to steel supporting brackets. Cables running within cargo spaces protected by sheet metal casings

Are all lead sheaths, armouring and conduits effectually bonded and earthed Yes. Are all cables passing through decks and watertight bulkheads provided with deck tubes or watertight glands Yes, where unarmoured cables pass through beams, etc., are the holes effectively bushed Yes. Refrigerated chambers, are the cables and fittings as per Rule Yes.

Have refrigeration fan motors been constructed under survey - and test certificates supplied

Are the motors accessible for maintenance at all times Yes.



5-5  
Yar  
Nos  
Entered in Aalborg Rough Fee Book 3-8-37

Alternative Lighting, are the groups of lights in the engine and boiler rooms arranged as per Rule Yes Emergency Supply, state position On bridge Deck.

Navigation Lamps, are they separately wired Yes controlled by separate double pole switches and fuses Yes Are the switches and fuses in a position accessible only to the officers on watch Yes, is an automatic indicator fitted Yes Is an alternative supply provided Yes

Secondary Batteries, are they constructed, fitted and adequately ventilated as per Rule Yes, state battery capacity in ampere hours 148. Where required to do so does it comply with 1948 International Convention -

Lighting, is fluorescent lighting fitted No. If so, state nominal lamp voltage - and compartments where lamps are fitted -

Fittings, are all fittings on weather decks, in stokeholds and engine rooms and wherever exposed to drip or condensed moisture, weatherproof Yes

Searchlights, No. of 1, whether fixed or portable Fixed, are they of the carbon arc or of the filament type Filament

Heating and Cooking, is the general construction as per Rule Yes, are the frames effectually earthed Yes, are heaters in the accommodation of the convection type - Motors, are all motors constructed and installed as per Rule and placed in well-ventilated compartments in which inflammable gases cannot accumulate and protected from damage from water, steam and oil Yes.

Are motors coupled to oil fuel transfer and pressure pumps capable of being stopped from a position accessible in the event of fire in the pump compartment Yes. Have motors of 100 BHP and over been inspected by the Surveyors during manufacture and testing -

Have certificates of test for motors under 100 BHP intended for essential sea services been supplied and the results found as per Rule Yes.

Lightning Conductors, where required are they fitted as per Rule -

Ships carrying Oil having a Flash Point of less than 150° F. Have all the special requirements of the Rules for such ships been complied with -, are all fuses of an Approved Cartridge Type -, make of fuse - Are the fittings for pump rooms, 'tween deck spaces, etc., in accordance with the special requirements for such ships - Are all cables lead covered as per Rule -

E.S.D., if fitted state maker Polish State Factory M.O.R.S. location of transmitter and receiver Cofferdam For'd end of engine room

Spare Gear, if the vessel is for open sea service have spares been provided as per Rule and suitably stored in dry situations Yes.

Insulation Tests, has the insulation resistance of all circuits and apparatus been tested and found satisfactory Yes.

PARTICULARS OF GENERATING PLANT.

DESCRIPTION OF GENERATOR.	No. of	MAKER.	RATED AT				TYPE.	PRIME MOVER.	MAKER.
			Kw. per Generator	Volts.	Amps.	Revs. per Min.			
MAIN	3	Hans Still A.G.	45	230	196	1200	Diesel	M.W.M.	
EMERGENCY ROTARY TRANSFORMER									

GENERATOR CABLES.

DESCRIPTION.	No. of	Kw.	CONDUCTORS.		MAXIMUM CURRENT IN AMPERES.		APPROX. LENGTH (lead plus return feet)	INSULATION.	PROTECTIVE COVERING.
			No. in Parallel per Pole.	Sectional Area or No. and Dia. of Strands. Sq. ins. or sq. mm.	In the Circuit.	Rule.			
MAIN GENERATOR	3	45	1	150	196	205	14	Rubber	LCWB
EQUALISER	3		1	95		150	7		
EMERGENCY GENERATOR									
ROTARY TRANSFORMER: MOTOR									
GENERATOR									

MAIN DISTRIBUTION CABLES (to Auxiliary Switchboards, etc.).

DESCRIPTION.	No. of	Kw.	No. in Parallel per Pole.	Sectional Area or No. and Dia. of Strands. Sq. ins. or sq. mm.	In the Circuit.	Rule.	APPROX. LENGTH (lead plus return feet)	INSULATION.	PROTECTIVE COVERING.
Shore supply to main switchboard	1		1	150	200	205	45	Rubber	LCWB

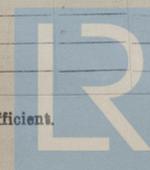
DISTRIBUTION CABLES (to Section-Boards and Distribution-Fuse-Boards, etc.).

Circuit No.	DESCRIPTION.	CONDUCTORS.		MAXIMUM CURRENT IN AMPERES.		APPROX. LENGTH (lead plus return feet)	INSULATION.	PROTECTIVE COVERING.
		No. in Parallel per Pole.	Sectional Area or No. and Dia. of Strands. Sq. ins. or sq. mm.	In the Circuit.	Rule.			
01	Winches. box S.1	1	70	102	125	45		
05	Engine Room Box S.2	1	25	50	63	10		
06	Engine Room Box S.2	1	16	41	49	2.5		
08	Galley Box S.13	1	6	23	29	35		
11	Galley	1	35	64	78	40		
12	Lubricating oil heater	1	25	54.5	63	20		
14	Water Heater	1	10	27.3	38	15		
15	Hold Fans (Box S.4)	1	2.5	8.5	15.5	25		
16	Domestic Refrigeration	1	4	18.2	22.5	45		
18	Engine Room Lighting (Box S.6)	1	2.5	12.7	15.5	10	Rubber	LCWB
19	Lighting (Main Deck Box S.7)	1	4	13.7	22.5	25		
20	Lighting (Shelter Deck Box S.8)	1	2.5	10.5	15.5	30		
21	Lighting (Boat Deck Box S.9)	1	2.5	10	15.5	35		
22	Hold & Deck Lighting (Box S.10)	1	4	13.7	22.5	40		
25	Gyro Compass	1	1.5	5.5	9.5	25		
26	Radio (Distribution Box S.11)	1	4	20	22.5	45		
27	Navigation Equipment (Box S.12)	1	6	13.7	29	45		
28	Navigation Lighting	1	1.5	1.4	9.5	40		
29	Emergency Lighting Control Circuit	1	1.5	1.0	9.5	40		

MOTOR CABLES.

ALL IMPORTANT MOTORS TO BE ENUMERATED.	No.	B.H.P.	No. in Parallel per Pole.	Sectional Area or No. and Dia. of Strands. Sq. ins. or sq. mm.	In the Circuit.	Rule.	APPROX. LENGTH (lead plus return feet)	INSULATION.	PROTECTIVE COVERING.
02 Windlass	1	27.5	1	50	93.5	99	70		
03 F.W. Circ Pump	1	20.5	1	35	69	78	7.5		
04 Fire Pump	1	20.5	1	35	69	78	9		
07 Air Compressor	1	18.8	1	35	63.7	78	16		
09 Bilge Pump	1	16.3	1	25	54.5	63	11		
10 Ballast Pump	1	18.1	1	25	61.5	63	11	Rubber	LCWB
17 M.E.Lub Oil Pump	1	5.9	1	4	20.0	22.5	18		
23 Steering Machinery	1	1.8	1	6	10.6	29	45		
Oil Purifier	2	1.9	1	2.5	64	15.5	5		
Oil fuel trans pump	1	2.2	1	2.5	7.3	15.5	5		
Engine room fans	2	.8	1	1.5	2.8	9.5	2.5		

NOTE.—Use Rpt. 13 Continuation Sheet if the above space is insufficient.



The Electrical Equipment is installed in accordance with the approved plans and the requirements of the Rules.  
 All Insulated Conductors are guaranteed to have been tested at the maker's works as specified in the Rules.  
 The foregoing is a correct description.

*G. S. S. S.*

Electrical Contractors. Date 8.08.60

COMPASSES.

Have the compasses been adjusted under working conditions Yes.

DYREKTOR TECHNICZNY

*S. Gorgon*

Builder's Signature. Date 8.08.60

mgr. inż. Stanisław Gorgon

Have the foregoing descriptions and schedules been verified and found correct Yes.

Is this installation a duplicate of a previous case Yes. If so, state name of vessel "SKIERKA" B57/3 (Still building)

Plans. Are approved plans forwarded herewith No. If not, state date of approval 30-10-58.

Certificates. Are certificates of test for motors engaged on essential sea services and generators forwarded herewith Yes.

General Remarks. (State quality of workmanship and materials, opinions as to class, etc.)

The electrical equipment, cables and fittings in this vessel have been fitted and installed under Special Survey in accordance with the Rules, approved plans and Secretary's Letters.

The installation has been tested under working conditions, and found satisfactory. The quality of material and workmanship are good.

The installation in my opinion is such as could be classed with the Society in conjunction with the Main and Auxiliary Machinery.

Total Capacity of Generators 135. Kilowatts.

The amount of Fee ... £ 99 : 9 : 7  
 & zł 5.190.-

When applied for, 30.6. 19 60  
 When received, \_\_\_\_\_

Travelling Expenses (if any) £ zł. 905.-

*N. Bienes*  
 Surveyor to Lloyd's Register of Shipping.  
 N. Bienes

Committee's Minute FRIDAY 28 OCT 1960

Assigned See Rpt. 1.

*7.9.60*

*PC*

501,651 - Transfer. (MADE AND PRINTED IN ENGLAND)  
 (The Surveyors are requested not to write on or below the space for Committee Minutes.)



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