

12 OCT 1959

No. F.E.E. 007

13.

REPORT ON ELECTRICAL EQUIPMENT.

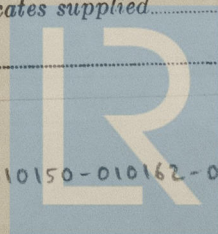
(OTHER THAN FOR THE PROPULSION OF THE VESSEL)

Received at London Office

G d a n s k

Date of writing Report Aug. 19 59 When handed in at Local Office 19 Port of G d a n s k
 No. in Survey held at Gdansk Date, First Survey 6.3.59 Last Survey 31.7.19.59
 Book. (No. of Visits 7) 472.95
 40524 on the M.V. " K R U T Y N I A " Tons Gross 472.95 Net 182.84
 Built at Gdansk By whom built Stocznia Gdańska Yard No. B51/010 When built 1959
 Owners Polish Government Port belonging to Szczecin
 Installation fitted by Stocznia Gdańska (Electrical Dep't) When fitted 1959
 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 Two Wire Voltage of Lighting 220
 Heating None Power 220 D.C. or A.C., Lighting D.C. Power D.C. 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 None 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 Negative
 Have machines 100 kw. and over been inspected by the Surveyors during manufacture and testing None Have certificates of test for machines
 under 100 kw. been supplied and the results found as per Rule Yes Position of Generators Engine Room, Main Engine
 Starting Platform Level, s.s.f., p.s.f. outboard and inboard
 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 Adjacent to Engine
 Room Forr'd Bulkhead, Thwartships at 4, Main Engine Starting Platform Level
 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 mounted on 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 Automatic Circuit Breakers with reverse and over-
 current release for Generators. Triple Pole Breakers with one equalizing Pole.
 and the switch and fuse gear (or circuit breakers) for each outgoing circuit Double Pole, Rotary Spring Loaded Packet
 Type Switches with Cartridge Type Fuses
 Are compartments containing switchboards composed of fire-resisting material or lined as per Rule Yes Instruments on main switchboard 5
 ammeters 4 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 Volt-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
 Polish State Factories Yes If circuit breakers are provided for the generators, at what
 make of fuses B4-GSZ(T) Bm. Wto. I&II are all fuses labelled Yes, and at what current do the reverse current protective-
 overload do they operate 50% of full load current Yes
 devices operate 10-15% of full load current 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 1 volts Are all paper insulated and varnished cambric insulated cables sealed at the ends None
 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 No. if so, are they adequately protected - State
 type of cables (if in conduit this should also be stated) in machinery spaces L.C.W.B. galleys L.C.W.B.
 and laundries None State how the cables are supported or protected Mains: L.C.W.B. Cables Clipped
 to Cabletrays, protected by Sheet Steel Casings thro' Holds. Machinery Space: -L.C.W.B.
 Cables clipped to Cabletrays. Accommodation: -L.C.W.B. and L.C. Cables clipped to Cable
 Trays or Woodwork.
 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, Lead Refrigerated chambers, are the cables and fittings as per Rule None for Cargo
 Have refrigeration fan motors been constructed under survey - and test certificates supplied -
 Are the motors accessible for maintenance at all times -

010150-010162-0298 1/2



© 2021

Lloyd's Register
Foundation

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

Circuit No.	DESCRIPTION.								
22	Engine Room Auxil'y Panel	1	35	45	✓ 78	7	Rubber	L.C.W.B.	
23	Galley D.B.	1	95	86	✓ 150	13			
IV	Shore Connection Panel	1	70	68.7	✓ 125	16			
15	Forward Winch & Windlass Panel	1	95	97	✓ 150	49			
16	Aft Winch Panel	1	95	82.8	✓ 150	18			
27	Secondary Batteries Char'g Panel	1	4	13.6	✓ 22.5	10	Rubber	L.C.W.B.	

ALL IMPORTANT MOTORS TO BE Circuit No. ENUMERATED.			No.	MOTOR CABLES.						
07 Oil Purifier	1	0.6	1	2.5	2.8	15.5	16	Rubber	L.C.W.B.	
1501-02, 1601-02 Winches	4	14	1	35	63.6	78	6			
1503 Windlass	1	14.6	1	35	66.4	78	16			
17 Ballast Pump	1	16.1	1	70	73	125	12			
18 Air Compressor	1	4.8	1	10	21.8	38	13			
19 Bilge Pump	1	6.2	1	16	28.2	49	9			
20 Fire Pump	1	16.1	1	70	73	125	13			
2202 Fuel Oil Transfer Pump	1	1.32	1	2.5	6	15.5	20			
2203-04 Sanitary Pumps	2	1.32	1	2.5	6	15.5	4			
24 Steering Gear	1	2.10	1	6	9.6	29	30			
1303-04 Engine Room Vents Fans	2	0.74	1	1.5	3.36	9.5	20	Rubber	L.C.W.B.	

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.

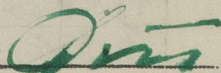

Inz. W. CZARNOWSKI
Dyrektor Techniczny

Electrical Contractors.

Date

COMPASSES.

Have the compasses been adjusted under working conditions. Yes.



Builder's Signature.

Date

Inz. W. CZARNOWSKI
Dyrektor Techniczny

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

Is this installation a duplicate of a previous case. No. If so, state name of vessel

Plans. Are approved plans forwarded herewith. No. If not, state date of approval. 2nd February, 1959

Certificates. Are certificates of test for motors engaged on essential sea services and generators forwarded herewith. No. See Note Below x)

General Remarks. (State quality of workmanship and materials, opinions as to class, etc.) The electrical installation of this vessel has been fitted on board under Special Survey in accordance with the approved plans and Secretary's letters. It has been tested under working conditions and found satisfactory. The quality of materials and workmanship is good. The installation is in our opinion such as could be classed with the Society, in conjunction with the Main Propulsion and Auxiliary Machinery.

N.B. x)

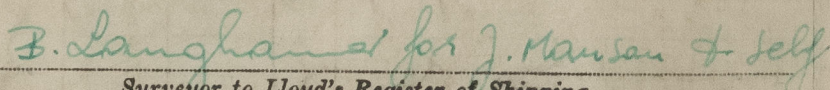
It has been verified from identification markings that the 3 generators and all essential motors have been constructed in Western Europe (Western Germany or Denmark) to the requirements of the Society. The original certificates issued by the Society's Surveyors for generators and for essential services motors have been viewed by us.

Total Capacity of Generators 96 Kilowatts.

The amount of Fee £ 6.768.- & £ 112.16.-
When applied for, 31/7 1959

When received,

Travelling Expenses (if any) £ : : 19


Surveyor to Lloyd's Register of Shipping.
J. Manson & B. Langhammer

Committee's Minute

Assigned

See Rpt. 1.

FRIDAY 13 NOV 1959



© 2021

Lloyd's Register
Foundation