

REPORT ON ELECTRICAL EQUIPMENT.

(OTHER THAN FOR THE PROPULSION OF THE VESSEL)

Received at London Office.....

1 FEB 1949

Date of writing Report..... 18/1 1949 When handed in at Local Office..... 18/1 1949 Port of..... GDYNIA

No. in Survey held at..... Gdansk Date, First Survey..... 9/8/48 Last Survey..... 19/10 1948
Reg. Book..... (Number of Visits..... Six.)

78213 on the..... M.V. "TURNIA" Tons { Gross..... 634
Net..... 430

Built at..... Rochester N.Y. By whom built..... Odenbach Shipbuild. Corp. Yard No..... - When built..... 1944

Owners..... Polish Government Port belonging to..... Gdynia

Electrical Installation fitted by..... Contract No..... When fitted..... 1944

Is vessel fitted for carrying Petroleum in bulk..... Yes Is vessel equipped with D.F..... E.S.D..... Gy.C..... Sub.Sig.....

Have plans been submitted and approved..... System of Distribution..... 3 phase 3 wire Voltage of supply for Lighting..... 110 Volt
single phase

Heating..... Steam Power..... 240. Direct or Alternating Current, Lighting..... AC Power..... AC If Alternating Current state periodicity..... 60 Prime Movers,
P yes

has the governing been tested and found as per Rule when full load is suddenly thrown on and off..... S. no Are turbine emergency governors fitted with a
trip switch as per Rule..... Generators, are they compound wound..... are they level compounded under working conditions.....

if not compound wound state distance between generators..... and from switchboard..... Where more than one generator is fitted are they
arranged to run in parallel..... yes, are shunt field regulators provided..... Is the compound winding connected to the negative or positive pole
..... Have machines over 100 kw. been inspected by the Surveyors during manufacture and testing..... No Have certificates of
test for machines under 100 kw. been supplied..... No and the results found as per rule..... Are the lubricating arrangements and the construction
of the generators as per rule..... yes Position of Generators..... In Engine room (p. & s. f.)

....., is the ventilation in way of generators satisfactory..... yes are they clear of inflammable material..... yes, if situated
near unprotected combustible material state distance from same horizontally..... and vertically..... are the generators protected from mechanical
injury and damage from water, steam and oil..... yes are the bedplates and frames earthed..... yes and the prime movers and generators in metallic
contact..... yes Switchboards, where are main switchboards placed..... In Engine room fwd. midships and placed athwart ship

are they in accessible positions, free from inflammable gases and acid fumes..... yes are they protected from mechanical injury and damage from water, steam
and oil..... yes, if situated near unprotected combustible material state distance from same horizontally..... and vertically..... what insulation
material is used for the panels..... Panels of steel all fittings insulated 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..... yes Is the frame effectually earthed..... yes

Is the construction as per Rule..... including accessibility of parts..... yes absence of fuses on the back of the board..... yes, individual fuses
to pilot and earth lamps, voltmeters, etc.,..... yes locking of screws and nuts..... labelling of apparatus and fuses..... yes, fuses on the "dead"
side of switches..... yes Description of Main Switchgear for each generator and arrangement of equaliser switches..... 300 A - 250 V 3 phase
un-fused kniveswitches dead front type with 600 A frame 600 V 3 phase circuit breakers, dead front type
and synchronizing switches exciter field rheostats and voltage regulators

and for each outgoing circuit..... 100 A frame 230 V AC 3 phase

Are compartments containing switchboards composed of fire-resisting material or lined as per Rule..... yes Instruments on main switchboard..... 2
ammeters..... 3 voltmeters..... 1 synchronising devices. For compound machines in parallel is the ammeter connected on the pole opposite to the
equaliser connection..... Earth Testing, state means provided..... 3 lamps

Switches, Circuit Breakers and Fuses, are they as per Rule..... are the fuses an approved type..... yes are all fuses labelled as
per Rule..... yes If circuit breakers are provided for the generators, at what overload current did they open when tested..... 230 are the reversed current
protection devices connected on the pole opposite to the equaliser connection..... yes have they been tested under working conditions, and at what current
did they operate..... 20 Joint Boxes, Section Boards and Distribution Boards, is the construction and position as per Rule..... yes

Cables, are they insulated and protected as per the appropriate Tables of the Rules..... 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% are the ends of all cables having a sectional area of 0.04
square inch and above provided with soldering sockets..... yes Are paper insulated and varnished cambric insulated cables sealed at the ends..... none

DESCRIPTION.	KILOWATTS.	CONDUCTORS.		MAXIMUM CURRENT IN AMPERES.		APPROX. LENGTH (lead plus return feet).	INSULATED WITH.	HOW PROTECTED.
		No. in Parallel For Pole.	Sectional Area or No. and Dia. of Strands. Sq. ins. or sq. mm.	In the Circuit.	Rule.			
MAIN GENERATOR ... (Port) ...	75 KVA	1	37/2.2	181 ✓	184	14	Rubber	Lead Covered &
" " EQUALISER (Subd.)	75 KVA	1	37/2.2	181 ✓	184	20	do.	Metal Braided
ALL MEASUREMENTS IN METRIC								
EMERGENCY GENERATOR ...	---	---	---	---	---	---	---	---
ROTARY TRANSFORMER: MOTOR		1	7/1.6	20 ✓	46	14	Rubber	do.
" " GENERATOR	5	1	7/1.6	45.4 ✓	46	14	do.	

[illegible][illegible]

ALL IMPORTANT MOTORS TO BE ENUMERATED.	No.	B.H.P.	mm ²							
Cargo Pump	2	25	1	7/2.7 (40)	85 ✓	85	35 EA	Rubber	Lead Covered & Met	Braided
Cargo Drain Pump	1	2	1	7/0 (1.9)	6.75 ✓	10	30	"		
Fire Pump	1	20	1	7/2.7	51 ✓	85	32	"	Do.	
Compressor	1	7.5	1	7/1.0	21.1 ✓	24	32	"	do.	
F.O.Transfer & L.O.Pump	1	5	1	7/0.6	9.27 ✓	10	30	"	do.	
Bilge Pump	1	5	1	7/1.0	12.2 ✓	24	28	"	do.	
Domestic Refrigerator	2	7.5	1	7/0.6	2.6 ✓	10	24 EA	"	do.	
Steering Gear (D.C)	1	5	1	7/1.3	38.9 ✓	37	14	"	do.	
General Service Pump	1	1.5	1	7/0.6	5 ✓	10	28	"	do.	
Windlass	1	20	1	7/2.7	70 ✓	85	88	"	do.	
Capstan	1	10	1	7/1.9 (20)	35.3 ✓	55	40	"	do.	
Forwd.Bilge Pump	1	1.5	1	7/0.6	5 ✓	10	80	"	do.	

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.

Electrical Engineers.

Date

Measurements in Ft.

COMPASSES.

Minimum distance between electric generators or motors and standard compass 30 Ft.

Minimum distance between electric generators or motors and steering compass 22 Ft.

The nearest cables to the compasses are as follows:—

A cable carrying .4 Ampères 10 feet from standard compass 3 feet from steering compass.

A cable carrying .5 Ampères 10 feet from standard compass 2 feet from steering compass.

A cable carrying .5 Ampères 5 feet from standard compass 6 feet from steering compass.

Have the compasses been adjusted with and without the electric installation at work at full power

Has the effect of switching on and off circuits, motors and other electro-magnetic apparatus within the vicinity of the compasses been noted

The maximum deviation due to electric currents was found to be degrees on course in the case of the standard compass, and degrees on course in the case of the steering compass.

Builder's Signature.

Date

Is this installation a duplicate of a previous case If so, state name of vessel

Plans. Are approved plans forwarded herewith If not, state date of approval

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

General Remarks (State quality of workmanship, whether insulation tests, etc., have been made, opinions as to class, etc.)

The Electrical installation as far as now seen, is efficient, the generators, motors switchboard cables and fittings have been examined and tried under working conditions with satisfactory results. The insulation has been tested and found in good order. The installation is such that in my opinion it is eligible for acceptance in a classed vessel. The workmanship is good.

Notes sent 12/7/49

Total Capacity of Generators 120 Kilowatts.

The amount of Fee see Gay. Rpt. 9 : When applied for, : 19.

Travelling Expenses (if any) £ : When received, : 19.

Committee's Minute

Assigned

Collection for self
Surveyor to Lloyd's Register of Shipping.
+ L. O. Hansen.
J. A. Boater.



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