

REPORT ON ELECTRIC FITTINGS.

(OTHER THAN FOR THE PROPULSION OF THE VESSEL)

Date of writing Report 17th Oct 1927 When handed in at Local Office

Received at London Office

10 Port of LENINGRAD

No. in Survey held at LENINGRAD
Reg. Book.

Date, First Survey 11th March 27 Last Survey 27th July 1927

(Number of Visits.....)

on the S/S "TOYARISTCH STALIN"

Tons { Gross
Net

Built at LENINGRAD

By whom built BALTIC SHIPBUILDING & ENG^y YARD Yard No. 166

When built 1927

Owners SOVIET MERCANTILE FLEET

Port belonging to LENINGRAD

Electric Light Installation fitted by BALTIC SHIPBUILDING & ENG^y YARD Contract No.

When fitted 1927

System of Distribution DOUBLE WIRE

Pressure of supply for Lighting 220 VOLTS

volts, Heating ☒

volts, Power

220 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 NOT EFFICIENT.

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 (2-60 KW. MACHINES) YES, 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 ENGINE ROOM STAR^o 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

NONE

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 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 NONE

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 MICANITE USED ON FITTINGS

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 NONE

, proportion of omnibus

bars YES

, individual fuses to voltmeter, pilot or earth lamp NO

, connections of switches YES

Main Switchgear, description of switchgear for each generator and each outgoing circuit, and arrangement of equalizer switches EACH 60 KW. GENERATOR

HAS TWO SINGLE POLE FUSES AND DOUBLE POLE CIRCUIT BREAKER WITH OVERLOAD & REVERSE TRIPS, EACH GENERATOR IS CONNECTED TO A PAIR OF BUS BARS, FOR CONNECTING EACH PAIR OF BUS BARS IN PARALLEL AND FOR EQUALIZER A TRIPLE POLE SWITCH IS FITTED. AUX. GENERATOR HAS TWO SINGLE POLE FUSES AND DOUBLE POLE SWITCH.

Instruments on main switchboard

7

ammeters

3

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 FRISCH'S SYSTEM

Switches, Circuit Breakers and Fusible Cut-outs, do these comply with the requirements of the Rules YES EXCEPT MAIN SWITCHBOARD FUSES

Joint Boxes Section and Distribution Boards, is the construction, protection, insulation, material, and position of these as per rule YES

If portable lamps for use in dangerous spaces are supplied, are they of a type approved by the Home Office

MOTOR CONDUCTORS.									
Ref. No.	DESCRIPTION.	No. of Motors.	Effective Area of each Conductor. Sq. Ins.	COMPOSITION OF STRAND.		Total Maximum Current. Am. Amps.	Approximate Length. (Load and Reserve.) Feet.	Insulated with	HOW PROTECTED.
				No.	Diameter.				
	BALLAST PUMP	✓							
	MAIN BILGE LINE PUMPS ...	✓							
	GENERAL SERVICE PUMP ...	✓							
	EMERGENCY BILGE PUMP ...	✓							
	SANITARY PUMP	✓							
	OFF. SEA WATER PUMPS ...	✓							
	FOR USE ONLY								
	OFF. FRESH WATER PUMPS	1	6 7/8"	7	1.05/3.2	12	✓	15 MET.	LEAD COVERED
	AIR COMPRESSOR	✓							
	FRESH WATER PUMP	✓							
	ENGINE TURNING GEAR ...	✓							
	ENGINE REVERSING GEAR ...	✓							
	LUBRICATING OIL PUMPS ...	✓							
	OIL FUEL TRANSFER PUMP	1	50 7/8"	37	1.31/9.2	150	✓	110 MET.	LEAD COVERED
	WINDLASS	1	50 7/8"	37	1.31/9.2	150	✓	90 MET.	" "
	WINCHES, FORWARD	4	50 7/8"	37	1.31/9.2	150	✓	90 MET.	" "
	WINCHES, AFT	4	50 7/8"	37	1.31/9.2	150	✓	90 MET.	" "
	STEERING GEAR—	✓							
	(a) MOTOR GENERATOR ...	✓							
	(b) MAIN MOTOR	✓							
	WORKSHOP MOTOR	1	6 7/8"	7	1.05/3.2	18	✓	15 MET.	LEAD COVERED
	VENTILATING FANS	12	1 1/8"	7	.73/1.3	5	✓	FROM LIGHTING CIRCUITS.	" "
	CORAL WINCH	1	25 7/8"	19	1.3/6.5	75	✓	40 MET.	" "

TABLES APPROVED BY
LONDON LETTER 3/12/26

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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.

Barsukov

Electrical Engineers.

Date *13/III-27*

COMPASSES.

Distance between electric generators or motors and standard compass *70'*

Distance between electric generators or motors and steering compass *84'*

The nearest cables to the compasses are as follows:—

A cable carrying *0.15* Amperes *28* feet from standard compass *42* feet from steering compass.

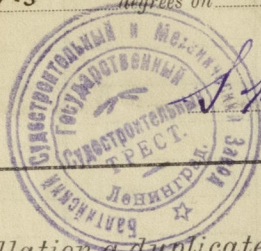
A cable carrying *0.17* Amperes *2'-4"* feet from standard compass *6'-4"* feet from steering compass.

A cable carrying *0.17* Amperes *2'-4"* feet from standard compass *6'-4"* 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 *-0.9* degrees on *240.6* course in the case of the standard compass, and *+1.5* degrees on *170* course in the case of the steering compass.



Shortcheletti

Builder's Signature.

Date *30/III-27*

Is this installation a duplicate of a previous case *YES* If so, state name of vessel *"GREGORY ZINOVIEFF"*

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

This installation has been fitted on board under special survey, the workmanship generally was found to be very good.

The 60 kw. Generator have not been adjusted under full power working condition on account of the engine governors not operating satisfactory. When the engine governors have been efficiently regulated the circuit breakers are to be adjusted in the presence of a Surveyor and a notice fixed to the Switch Board giving instructions for working the triple-switch when the machines are run in parallel. Meanwhile the Owners Representative has been informed that the machines are not to be run in parallel.

Total Capacity of Generators *128* Kilowatts.

The amount of Fee	£	:	:	When applied for,
				19
Travelling Expenses (if any)	£	:	:	When received,
				19

H. M. Crisick
Surveyor to Lloyd's Register of Shipping.

Committee's Minute

Assigned

Im. 128.—Transfer.
(The Surveyors are requested not to write on or below the space for Committee's Minute.)



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