

REPORT ON ELECTRICAL EQUIPMENT.

(OTHER THAN FOR THE PROPULSION OF THE VESSEL)

24 NOV 1949

Date of writing Report... 16-11-49... When handed in at Local Office... 17-11-49... Port of... Antwerp... Received at London Office...

No. in Survey held at... Antwerp... Date, First Survey... 19... Reg. Book... 10688... on the... S.S. GEORGY SEDOV... Tons { Gross... 1538... Net... 578... (Number of Visits...)

Built at... Glasgow... By whom built... Mr. Henderson & Co. Ltd... Yard No... When built...

Owners... U.S.S.R... Port belonging to... Archangel...

Electrical Installation fitted by... L'Electro Navale & Industrielle S.A... Contract No... When fitted... 1949...

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

Have plans been submitted and approved... Yes... System of Distribution... Double Pole... Voltage of supply for Lighting... 220...

Heating... Power... 220... Direct or Alternating Current, Lighting... AC... Power... AC... If Alternating Current state periodicity... Prime Movers...

Has the governing been tested and found as per Rule when full load is suddenly thrown on and off... Yes... Are turbine emergency governors fitted with a trip switch as per Rule... Yes...

Generators, are they compound wound... Yes... are they level compounded under working conditions... Yes... 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... No... are shunt field regulators provided... Yes...

Is the compound winding connected to the negative or positive pole... Negative... Have machines over 100 kw. been inspected by the Surveyors during manufacture and testing... Have certificates of test for machines under 100 kw. been supplied... Yes... and the results found as per rule... Yes... Are the lubricating arrangements and the construction of the generators as per rule... Yes...

Position of Generators... Both Main driven in separate Comp. above Thrust Revers. - Emergency Diesel driven in Thrust Comp. - 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 Compartment above for Steam generators...

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... No panels used (Lead front type)... synthetic insulating material is it an Approved Type... Reson... if of semi-insulating material (slate or marble) are all conducting parts insulated therefrom as per Rule... Is the frame effectually earthed... Yes...

Is the construction as per Rule... Yes... including accessibility of parts... Yes... absence of fuses on the back of the board... individual fuses to pilot and earth lamps, voltmeters, etc... Yes... locking of screws and nuts... Yes... 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... OP. with fuses...

and for each outgoing circuit... OP. with fuses...

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

Switches, Circuit Breakers and Fuses, are they as per Rule... Yes... 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... are the reversed current protection devices connected on the pole opposite to the equaliser connection... have they been tested under working conditions, and at what current did they operate... 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... 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... Yes...

and where are the controlling switches fitted....., are all fittings suitably ventilated.....
are all fittings and accessories constructed and installed as per Rule..... Searchlight Lamps, No. of 2., whether fixed or portable.....
....., are their fittings as per Rule..... Heating and Cooking, is the general construction as per Rule.....
are the frames effectually earthed....., 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 free from damage from water,
steam and oil....., if situated near unprotected combustible material state minimum distance from same horizontally..... and vertically..... Are
motors coupled to oil fuel transfer and unit pressure pumps capable of being stopped from a position accessible in the event of fire in the pump compartment.....
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 services been supplied and the results found as per Rule..... Control Gear and Resistances, are they constructed and
fitted as per Rule..... Lightning Conductors, where required are they fitted as per Rule..... Ships carrying Oil having a Flash Point
less than 150° F. Have all the special requirements of the Rules for such ships been complied with....., are all fuses of the cartridge type.....
are they of an approved type..... Are the fittings for pump rooms, 'tween deck spaces, etc., in accordance with the special requirements for such
ships..... Are the cables lead covered as per Rule..... Spare Gear, if the vessel is for open sea service have spares been provided as per
Rule....., are they suitably stored in dry situations..... Insulation Tests, has the insulation resistance of all circuits and apparatus been tested
and found satisfactory.....

DESCRIPTION OF GENERATOR.	No. of	RATED AT				DRIVEN BY	WHERE DRIVEN BY AN INTERNAL COMBUSTION ENGINE.	
		Kilowatts.	Volts.	Ampères.	Revs. per Min.		Fuel Used.	Flash Point of Fuel.
MAIN ...	2	20	210	91	750	Steam Engine	-	-
EMERGENCY ...	1	10	220	45	1000	Diesel Engine.	Diesel Oil	Above 150°F.
ROTARY TRANSFORMER								

DESCRIPTION.	KILOWATTS.	CONDUCTORS.		MAXIMUM CURRENT IN AMPERES.		APPROX. LENGTH (lead plus return feet).	INSULATED WITH.	HOW PROTECTED.
		No. in Parallel For Folds.	Regional Area or No. and Dia. of Strands. Sq. ins. or sq. mm.	In the Circuit.	Rule.			
MAIN GENERATOR	20	1	19/03.	91	118 ✓	6m.	Rubber.	Armoured.
" " EQUALISER								
EMERGENCY GENERATOR	10	1	19/044	45	53 ✓	3 1/2 m.	"	"
ROTARY TRANSFORMER: MOTOR								
" " GENERATOR								

DESCRIPTION.	CONDUCTORS.		MAXIMUM CURRENT		APPROX.	INSULA- TED WITH.	HOW PROTECTED.
	No. in Fasild Per Core.	Sectional Area or No. and Dia. of Strands. Sq. ins. or sq. mm.	In the Circuit.	Rule.	LENGTH (feet plus return feet).		
AUX. SWITCHBOARDS AND SECTION BOARDS ...							
T1	1	2x 7/024	13	15 ✓	80'	Alu.	Lead Covered.
T2	1	7/044	30.	31 ✓		"	
T3	1	2x 7/024	11.5	15 ✓		"	
T4	1	2x 3/026	9.5	10 ✓		"	
T5	1	1/025.	86.	118 ✓	60m 15'	"	
T5B	1	2x 3/026	8	10 ✓	6 55'	"	
T6	1	2x 024.	3.	5 ✓		"	
T6	1	2x 3/026	7	10 ✓		"	
T7	1	2x 7/026	17	24 ✓		"	
T8	1	7/044	28	31 ✓		"	
TV	1	2x 7/044.	28.	31. ✓		"	

[illegible]

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

COMPASSES.

Minimum distance between electric generators or motors and standard compass

Minimum distance between electric generators or motors and steering compass

The nearest cables to the compasses are as follows:—

A cable carrying 4.2 Ampères 10 feet from standard compass 10 feet from steering compass.

A cable carrying .18 Ampères 10 feet from standard compass 10 feet from steering compass.

A cable carrying .18 Ampères 10 feet from standard compass 10 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 No If so, state name of vessel

Plans. Are approved plans forwarded herewith Yes 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.)

Please see Rpt 9. for Recommendations

Notes
19.12.49

Total Capacity of Generators 50 Kilowatts.

The amount of Fee

See Rpt 9.

Travelling Expenses (if any)

When applied for,

19.

When received.

19.

Surveyor to Lloyd's Register of Shipping.

Committee's Minute

Assigned

See minute on form 9

FRI. 30 DEC 1949



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Foundation