

REPORT ON ELECTRICAL EQUIPMENT.

(OTHER THAN FOR THE PROPULSION OF THE VESSEL)

Received at London Office.....

11 DEC 1944

Date of writing Report 2nd Dec 1944 When handed in at Local Office 8 DEC 1944 Port of Sunderland

No. in Survey held at Sunderland Date, First Survey 3rd Oct, Last Survey 2nd Dec 1944
Reg. Book. Suppt. (Number of Visits 12)91662 on the M.V. "REGISTAN" Tons {Gross 736.8
Net 503.9

Built at Sunderland By whom built Wm. Beardmore & Co. Ltd. Yard No. 722 When built 1944

Owners Sinc Line (1923) Ltd. Port belonging to London

Electrical Installation fitted by Campbell & Shumwood, Ltd. Contract No. 722 When fitted 1944

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 Two wire insulated Voltage of supply for Lighting 110

Heating Power 110 Direct or Alternating Current, Lighting Yes Power Yes 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 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 Engine room starboard side aft on

amidships, 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 Engine room starboard side aft

on gallery above generating sets

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 "Uony Sindamp" if of synthetic insulating material is it an Approved Type Yes, 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 Yes, 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 Double pole

circuit breakers with inverse time limit overcurrent release on

each pole

and for each outgoing circuit Double pole double throw quick break knife switch

and double pole fuse

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

ammeters Two 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 Flange coupled to E through two fuses

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 200 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 Yes

state maximum fall of pressure between bus bars and any point under maximum load 6.6 kV, are the ends of all cables having a sectional area of 0.01

square inch and above provided with soldering sockets Yes Are paper insulated and varnished cambric insulated cables sealed at the ends Yes

with insulating compound. Yes or waterproof insulating tape. Yes 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 cables laid under machines or floorplates. Yes if so, are they adequately protected. Yes Are cables in machinery spaces, galleys, laundries, etc., lead covered. Yes or run in conduit. Yes State how the cables are supported and protected. M.C.C. cable run on surface of W.E. cable run in heavy gauge steel conduit in transit and machinery spaces. L.C.B. cable run on surface of wood grounds in accommodation spaces. Are all lead sheaths, armouring and conduits effectually bonded and earthed. Yes Refrigerated chambers, are the cables and fittings as per Rule. 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 and with what material. Lead Alternative Lighting, are the groups of lights in the engine and boiler rooms arranged as per Rule. Yes Emergency Supply, state position. Emergency Supply, state position and method of control. Emergency Supply, state position

Navigation Lamps, are they separately wired. Yes controlled by separate double pole switches. Yes 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 Secondary Batteries, are they constructed and fitted as per Rule. Yes are they adequately ventilated. Yes what is the battery capacity in ampere hours. Emergency Supply, state position

Fittings, are all fittings on weather decks, in stokeholds and engine rooms and wherever exposed to drip or condensed moisture, weatherproof. Yes Are fittings installed where readily combustible materials or inflammable or explosive dust or gases are likely to be present. Yes if so, how are they protected. Emergency Supply, state position

and where are the controlling switches fitted. Emergency Supply, state position are all fittings suitably ventilated. Yes

are all fittings and accessories constructed and installed as per Rule. Yes Searchlight Lamps, No. of. Emergency Supply, state position whether fixed or portable. Emergency Supply, state position are their fittings as per Rule. Emergency Supply, state position Heating and Cooking, is the general construction as per Rule. Emergency Supply, state position

are the frames effectually earthed. Emergency Supply, state position are heaters in the accommodation of the convection type. Emergency Supply, state position Motors, are all motors constructed and installed as per Rule. Emergency Supply, state position and placed in well-ventilated compartments in which inflammable gases cannot accumulate and free from damage from water, steam and oil. Emergency Supply, state position if situated near unprotected combustible material state minimum distance from same horizontally. Emergency Supply, state position and vertically. Emergency Supply, state position 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. Emergency Supply, state position

Have motors of 100 BHP and over been inspected by the Surveyors during manufacture and testing. Emergency Supply, state position Have certificates of test for motors under 100 BHP intended for essential services been supplied and the results found as per Rule. Emergency Supply, state position Control Gear and Resistances, are they constructed and fitted as per Rule. Emergency Supply, state position Lightning Conductors, where required are they fitted as per Rule. Emergency Supply, state position 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. Emergency Supply, state position are all fuses of the cartridge type. Emergency Supply, state position

are they of an approved type. Emergency Supply, state position Are the fittings for pump rooms, tween deck spaces, etc., in accordance with the special requirements for such ships. Emergency Supply, state position Are the cables lead covered as per Rule. Emergency Supply, state position Spare Gear, if the vessel is for open-sea service have spares been provided as per Rule. Emergency Supply, state position are they suitably stored in dry situations. Emergency Supply, state position Insulation Tests, has the insulation resistance of all circuits and apparatus been tested and found satisfactory. Emergency Supply, state position

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MAIN DISTRIBUTION CABLES.

DESCRIPTION.	CONDUCTORS.		MAXIMUM CURRENT IN AMPERES.		APPROX. LENGTH (lead plus return feet).	INSULATED WITH.	HOW PROTECTED.
	No. in Parallel Per Pole.	Sectional Area or No. and Dia. of Strands. Sq. ins. or sq. mm.	In the Circuit.	Rule.			
AUX. SWITCHBOARDS AND SECTION BOARDS ...							
Assom. Ltg. S.B.	1	1.04	85	104	208	M.I.	C.C.
Capt. Ltg. S.B.	1	1.04	42	104	148	M.I.	C.C.
Engins Room S.B.	1	19/264	48	83	12	W.E.	On main S.W.B.
Aft S.B.	1	24/19/252	34	104/64	12+250	M.I./W.E.	C.C. / In conduit

LIGHTING AND HEATING, ETC., CABLES.

WIRELESS ...	1	23/7/264	15	87/46	228+32	M.I./W.E.	C.C./L.C.B.
NAVIGATION LIGHTS S.B.	1	22/7/264	6	28/31	208+170	M.I./W.E.	C.C./L.C.B.
LIGHTING AND HEATING ...							
Lat. Ltg. S.B.	1	7/264	21	31	52	W.E.	L.C.B.
Dist. Ltg. S.B.	1	7/264	20	31	6	W.E.	L.C.B.
Capt. Ltg. S.B.	1	7/264	18	31	110	W.E.	L.C.B.
Locals	1	7/264	20	24	50	W.E.	L.C.B.
Lat. Ltg. S.W.B.	1	3/264	6	10/2	110	W.E.	L.C.B.
Assom. Ltg. S.B.	1	7/264	18	46	340	W.E.	In conduit
Transmit. Ltg. S.B.	1	7/264	12	31	180	W.E.	In conduit
Sailing Lamps (2)	1	3/236/202	2x3	10/5	80+25	W.E./M.I.	L.C.B./C.C.
Emergency W.T.	1	3/236	6	10	120	W.E.	L.C.B.
Upper St. Ltg. S.B.	1	7/264	8	31	20	W.E.	L.C.B.
Lower St. Ltg. S.B.	1	7/264	9	31	12	W.E.	L.C.B.
Dist. Ltg. S.B.	1	7/264	12	31	200	W.E.	In conduit
Aft Ltg. S.B.	1	7/264	12	31	12	W.E.	On main S.W.B.

MOTOR CABLES.

ALL IMPORTANT MOTORS TO BE ENUMERATED.		No.	B.H.P.						
Oil Bunkering Pump	1	5	1	7/264	42	46	130	W.E.	In conduit
Dist. Bunkering Pump	1	5	1	7/264	29	70	162	W.E.	C.C. / In conduit
Forward Pump	1	16	1	7/264	32	31	25	W.E.	In conduit
Aft Pump	2	3	1	7/264	25	31	200	W.E.	In conduit
Refrig. Pump	2	3x7	1	7/264	27	9	46	W.E.	In conduit
Lat. Ltg. S.B.	1	2	1	7/264	26	1	142	M.I.	C.C.
Washing	1	2	1	7/264	17	31	190	W.E.	In conduit
Lat. Ltg. S.B. (off engine room S.B.)	2	1/2	1	7/236	12	24	280/162	W.E.	In conduit
Wind. Pump (off aft S.B.)	1	2	1	7/264	17	31	25	W.E.	L.C.B.

PARTICULARS OF GENERATING PLANT.

DESCRIPTION OF GENERATOR.	No. of	RATED AT			DRIVEN BY	WHERE DRIVEN BY AN INTERNAL COMBUSTION ENGINE.	
		Kilowatts.	Volts.	Amphers.		Fuel Used.	Flash Point of Fuel.
MAIN ...	2	15	110	136.5	600	Single cylinder steam engine	
EMERGENCY ...							
ROTARY TRANSFORMER							

GENERATOR CABLES.

DESCRIPTION.	KILOWATTS.	CONDUCTORS.		MAXIMUM CURRENT IN AMPERES.		APPROX. LENGTH (lead plus return feet).	INSULATED WITH.	HOW PROTECTED.
		No. in Parallel Per Pole.	Sectional Area or No. and Dia. of Strands. Sq. ins. or sq. mm.	In the Circuit.	Rule.			
MAIN GENERATORS ...	2x15	1	19/282	136	194	40/50	V.C.	L.C.B.
" " EQUALISER ...								
EMERGENCY GENERATOR ...								
ROTARY TRANSFORMER: MOTOR								
" " GENERATOR ...								

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.

CAMPBELL & ISHERWOOD, LTD.

PER. *Thos. Meade*

Electrical Engineers.

Date. *6-12-44*

COMPASSES.

Minimum distance between electric generators or motors and standard compass. *42 feet*

Minimum distance between electric generators or motors and steering compass. *38 feet*

The nearest cables to the compasses are as follows:—

A cable carrying *2.1/4* Ampères *on the* feet from standard compass *7* feet from steering compass.

A cable carrying *2.1/4* Ampères *7* feet from standard compass *on the* feet from steering compass.

A cable carrying Ampères feet from standard compass 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 *1/2* degrees on *any* course in the case of the standard compass, and *1/2* degrees on *any* course in the case of the steering compass.

WILLIAM DOXFORD & SONS, LIMITED.

J. Ramsay Bellie

Builder's Signature.

Date. *7/12/44*

Managing Director

Is this installation a duplicate of a previous case. *Yes* If so, state name of vessel *"Arvision"*

Plans. Are approved plans forwarded herewith. *Yes* If not, state date of approval *12/4/44*

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

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

equipment of this vessel has been installed under special survey. The materials used are of good quality and the workmanship is good. On completion the equipment was operated under working conditions with satisfactory results. The protective devices of the circuit breakers were adjusted and operated and the insulation resistance of all circuits was measured and found good. This equipment is in my opinion suitable for a classed vessel.

Noted

Thos

13.12.44

Total Capacity of Generators *3* ✓ Kilowatts.

The amount of Fee ... £ *22* : *10* : When applied for, *4. Dec. 19. 44*

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

Santerson

Surveyor to Lloyd's Register of Shipping.

Committee's Minute *THURS 21 DEC 1944*

Assigned *See fe machs rpt*