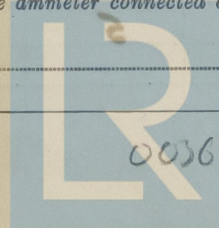


REPORT ON ELECTRICAL EQUIPMENT.

(OTHER THAN FOR THE PROPULSION OF THE VESSEL)

JAN - 2

Received at London Office.....

Date of writing Report 14th December 1940 When handed in at Local Office 31.12.1940 Port of GlasgowNo. in Survey held at Glasgow Date, First Survey 9.10.40 Last Survey 21st December 1940
Reg. Book. (Number of Visits 13)90211 on the S.S. "TRADER" Tons {Gross 6087
Net 3726Built at Glasgow By whom built C. Connell & Co. Ltd. Yard No. 430 When built 1940Owners Charente S.S. Co. Ltd. Port belonging to LiverpoolElectrical Installation fitted by H. T. Robertson & Co. Contract No. 430 When fitted 1940Is vessel fitted for carrying Petroleum in bulk - Is vessel equipped with D.F. - E.S.D. - Gy.C. - Sub.Sig. -Have plans been submitted and approved ✓ System of Distribution Single Wire Hull Return Voltage of supply for Lighting 110Heating - Power 110 Direct or Alternating Current, Lighting direct Power direct if Alternating Current state frequency - Prime Movers, -has the governing been tested and found efficient when the whole load is suddenly thrown on and off ✓ Are turbine emergency governors fitted with atrip 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 theyarranged to run in parallel no, are shunt field regulators provided ✓ Is the compound winding connected to the negative or positive polepositive Have machines over 100 kw. been inspected by the Surveyors during manufacture and testing - Have certificates oftest for machines under 100 kw. been supplied ✓ and the results found as per rule ✓ Are the lubricating arrangements and the constructionof the generators as per rule ✓ Position of Generators in engine room✓, is the ventilation in way of generators satisfactory ✓ are they clear of inflammable material ✓, if situatednear unprotected combustible material state distance from same horizontally - and vertically -, are the generators protected from mechanicalinjury and damage from water, steam and oil ✓, are the bedplates and frames earthed ✓ and the prime movers and generators in metalliccontact ✓ Switchboards, where are main switchboards placed near generatorsare they in accessible positions, free from inflammable gases and acid fumes ✓, are they protected from mechanical injury and damage from water, steamand oil ✓, if situated near unprotected combustible material state distance from same horizontally - and vertically -, what insulationmaterial is used for the panels Asidant, if of synthetic insulating material is it an Approved Type ✓, if ofsemi-insulating material (slate or marble) are all conducting parts insulated therefrom as per Rule - Is the frame effectually earthed ✓Is the construction as per Rule ✓, including accessibility of parts ✓, absence of fuses on the back of the board ✓, individual fusesto pilot and earth lamps, voltmeters, etc. ✓ locking of screws and nuts ✓, labelling of apparatus and fuses ✓, fuses on the "dead"side of switches ✓ Description of Main Switchgear for each generator and arrangement of equaliser switches -S.P. Switel and Fuseand for each outgoing circuit S.P. G/O. Switel and FuseAre compartments containing switchboards composed of fire-resisting material or lined as per Rule - Instruments on main switchboard 2ammeters 2 voltmeters - synchronising devices. For compound machines in parallel is the ammeter connected on the pole opposite to theequaliser connection - Earth Testing, state means provided -

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Lloyd's Register
Foundation

and where are the controlling switches fitted _____, are all fittings suitably ventilated. Yes
are all fittings and accessories constructed and installed as per Rule Yes Searchlight Lamps, No. of 1, whether fixed or portable Portable
_____, are their fittings as per Rule Yes 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 Yes and placed in well-ventilated compartments in which inflammable gases cannot accumulate and free from damage from water,
steam and oil Yes, if situated near unprotected combustible material state minimum distance from same horizontally _____ and vertically _____
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 Yes 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 _____. If portable lamps for use in dangerous spaces are supplied, are they of a self-contained battery-fed flameproof
type _____. Spare Gear, if the vessel is for open sea service have spares been provided as per Rule Yes, are they suitably stored in dry
situations Yes Insulation Tests, has the insulation resistance of all circuits and apparatus been megger tested and found satisfactory Yes

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 ...	1	15	110	136	450	Steam engine		
	1	7½	110	66	680	Steam engine		
EMERGENCY ...	1	5	110	45.5	1500	Ice engine	above 150°F.	
ROTARY TRANSFORMER								

DESCRIPTION.	KILOWATTS.	CONDUCTORS.		MAXIMUM CURRENT IN AMPERES.		APPROX. LENGTH (feet plus return loss).	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.	Rate.			
MAIN GENERATOR	Nº 1 15	1	87.072	136	152 ✓	8	Rubber	L.C
" " 	Nº 2 7½	1	19.064	65	83 ✓	10	"	L.C
EMERGENCY GENERATOR	5	1	7/064	45.5	46 ✓	9	"	L.C.
ROTARY TRANSFORMER: MOTOR ...								
" " GENERATOR ...								

[illegible]

WIRELESS	1	7/029	15	39	2660	IN CONDUIT
NAVIGATION LIGHTS	1	7/029	6	15	174	" "
LIGHTING AND HEATING						
POOP LT'S DB.	1	7/029	12	15	150	" "
ENGINE ROOM LT'S DB	1	7/029	13	15	10	" "
OFFICERS & ENGINEERS DB.	1	7/044	25	31	30	" "
SALOON ACCOMMODATION.	1	7/036	16	24	144	" "
CARGO FORD	1	7/036	18	24	240	" "
" AFT	1	7/036	13	24	180	" "
PROJECTOR	1	7/044	45	46	200	" "

[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.

H. T. Robertson & Co.

Electrical Engineers.

Date *24/12/40*

COMPASSES.

Minimum distance between electric generators or motors and standard compass *25 feet.*

Minimum distance between electric generators or motors and steering compass *20 feet.*

The nearest cables to the compasses are as follows:—

A cable carrying *36* Ampères *led into* feet from standard compass *led into* feet from steering compass.

A cable carrying *6* Ampères *10* feet from standard compass *10* 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 *nil* degrees on *any* course in the case of the standard compass, and *nil* degrees on *any* course in the case of the steering compass.

For CHARLES CONNELL & CO., Limited

D. W. Ballam

Builder's Signature.

Date *27/12/40*

SECRETARY

Is this installation a duplicate of a previous case *no.* If so, state name of vessel _____

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 fitted on board under special survef. tested under full working conditions and found satisfactory. The materials and workmanship are good.

Noted

L. J.

6/1/41.

Rob

31/12/40

Total Capacity of Generators *27½* Kilowatts.

The amount of Fee ... £ *21* : *5* : _____

When applied for,

31 DEC 1940

Travelling Expenses (if any) £ _____ : _____ : _____

When received.

10-11-19

Committee's Minute *GLASGOW* *31 DEC 1940*

SEE ACCOMPANYING MACHINERY REPORT.

Assigned _____

L. G. Fialaf

R. I. Hutchinson

Surveyor to Lloyd's Register of Shipping.