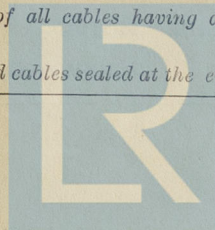


REPORT ON ELECTRICAL EQUIPMENT.

(OTHER THAN FOR THE PROPULSION OF THE VESSEL)

23 SEP 1942

Received at London Office

Date of writing Report.....19..... When handed in at Local Office.....19..... Port of LiverpoolNo. in Survey held at Birkenhead Date, First Survey..... Last Survey 18/8/42 19.....
Reg. Book. (Number of Visits.....)70751 on the M.V. "BRITISH TRADITION" Tons {Gross.....
Net.....Built at Birkenhead By whom built Cammell Laird & Co. Ltd Yard No. 1067 When built 1942Owners British Tankers Co. Ltd. Port belonging to LondonElectrical Installation fitted by The Sunderland Forge & Eng. Co. Ltd Contract No. 1067 When fitted 1942Is vessel fitted for carrying Petroleum in bulk Yes Is vessel equipped with D.F. Yes E.S.D. Yes Gy.C. - Sub.Sig. YesHave plans been submitted and approved Yes System of Distribution Two wire Voltage of supply for Lighting 110Heating - Power 110 Direct or Alternating Current, Lighting DC Power DC 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 atrip 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 theyarranged to run in parallel Yes, are shunt field regulators provided Yes Is the compound winding connected to the negative or positive polenegative Have machines over 100 kw. been inspected by the Surveyors during manufacture and testing - Have certificates oftest for machines under 100 kw. been supplied Yes and the results found as per rule Yes Are the lubricating arrangements and the constructionof the generators as per rule Yes Position of Generators In Engine Room Starb. side forward.-, is the ventilation in way of generators satisfactory Yes are they clear of inflammable material Yes, 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 Yes, are the bedplates and frames earthed Yes and the prime movers and generators in metalliccontact Yes Switchboards, where are main switchboards placed Engine Room near generator.are they in accessible positions, free from inflammable gases and acid fumes Yes, are they protected from mechanical injury and damage from water, steamand oil Yes, if situated near unprotected combustible material state distance from same horizontally - and vertically -, what insulationmaterial is used for the panels Siidamp., if of synthetic insulating material is it an Approved Type Yes, if ofsemi-insulating material (slate or marble) are all conducting parts insulated therefrom as per Rule - Is the frame effectually earthed YesIs the construction as per Rule Yes, including accessibility of parts Yes, absence of fuses on the back of the board Yes, individual fusesto 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 switchand fuses.and for each outgoing circuit Double pole change-over switch + D.P. fuses.Are compartments containing switchboards composed of fire-resisting material or lined as per Rule Yes 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 Good LampsSwitches, Circuit Breakers and Fuses, are they as per Rule Yes, are the fuses an approved type Yes, are all fuses labelled asper Rule Yes If circuit breakers are provided for the generators, at what overload current did they open when tested -, are the reversed currentprotection devices connected on the pole opposite to the equaliser connection -, have they been tested under working conditions, and at what currentdid they operate - Joint Boxes, Section Boards and Distribution Boards, is the construction and position as per Rule YesCables, 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 3.5V, are the ends of all cables having a sectional area of 0.04square inch and above provided with soldering sockets Yes Are paper insulated and varnished cambric insulated cables sealed at the ends Yes

and found satisfactory *Yes*

PARTICULARS OF GENERATING PLANT.

DESCRIPTION	RATED AT	DRIVEN BY	WHERE DRIVEN BY AN INTERNAL COMBUSTION ENGINE.
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DESCRIPTION OF GENERATOR.	No. of	RATED AT				DRIVEN BY	WHERE DRIVEN BY AN INTERNAL COMBUSTION ENGINE.	
		Kilowatts.	Volts.	Amperes.	Revs. per Min.		Fuel Used.	Flash Point of Fuel.
MAIN ...	2	30	110	273	600	Steam Engine.		
EMERGENCY ...								
ROTARY TRANSFORMER								

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 GENERATOR (2)	30	1	37/083	273	296	66	V.C.	L.C.A.B.
" " EQUALISER			—					
EMERGENCY GENERATOR			122					
ROTARY TRANSFORMER: MOTOR								
GENERATOR								

[illegible]

WIRELESS	1	7/064	35	75	105	V.C.	L.C.B
NAVIGATION LIGHTS D.B. 1.	1	7/036	15	24	132	Rubber	"
LIGHTING AND RUNNING BRIDGE D.B. 2.	1	7/044	15	31	120	"	"
Upper Bridge Lighting. D.B. 3	1	7/036	13	24	90	"	"
Bridge Deck Lighting. Port. D.B. 4	1	7/064	16	75	30	V.C	"
" " Star. D.B. 5	1	7/064	18	75	90	"	"
Large Lighting Machinery D.B. 6	1	7/036	11	24	30	Rubber	"
Engine Room Lighting. Port. D.B. 7	1	7/044	9	31	120	"	L.C.A.B
" " Star. D.B. 8.	1	7/044	9	31	80	"	"
" " (Star Deck) Port. D.B. 9	1	7/044	9	31	160	"	"
" " (Star Deck) Star. D.B. 10.	1	7/044	9	31	60	"	"
Port Deck Lighting Port. D.B. 11	1	7/044	18	31	105	"	L.C.B.
" " Star. D.B. 12.	1	7/044	7	31	30	"	"
Aft Lighting Upper Deck Port. D.B. 13	1	7/044	12	31	110	"	"
" " Star. D.B. 14.	1	7/044	11	31	80	"	"
Large Lighting (Aft) D.B. 15.	1	7/044	6	31	60	"	"

[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.

Per Pro THE SUNDERLAND FORGE & ENG. Co. LTD.

J. Williamson

Electrical Engineers.

Date

8th Sept 1942

COMPASSES.

Minimum distance between electric generators ~~motors~~ and standard compass.

215 ft

Minimum distance between electric generators ~~motors~~ and steering compass.

208 ft

The nearest cables to the compasses are as follows:—

A cable carrying 1.5 Ampères 14 feet from standard compass 10 feet from steering compass.

A cable carrying .1 Ampères ~~edit~~ feet from standard compass 8 feet from steering compass.

A cable carrying .1 Ampères 8 feet from standard compass ~~edit~~ 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 N/1 degrees on 207 course in the case of the

standard compass, and N/1 degrees on 207 course in the case of the steering compass.

J. H. Lawrence

Builder's Signature.

Date

17. 9. 42

Is this installation a duplicate of a previous case. No

If so, state name of vessel

Plans. Are approved plans forwarded herewith. No

If not, state date of approval

21/11/40 and 12/9/41

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 fitted on board under special survey, and in accordance with the approved plans. The installation has been tested under full working conditions and found satisfactory. The materials and workmanship are good.

Noted

L. G.

29/9/42

Total Capacity of Generators 60 Kilowatts.

The amount of Fee ... £ 28 : 10 : 0

When applied for,

198 SEP 1942

Travelling Expenses (if any) £ : :

When received.

19.

L. Gaffney & H. Gendy

Surveyors to Lloyd's Register of Shipping.

Committee's Minute

LIVERPOOL 22 SEP 1942

Assigned

See Minute on Machinery F.E. R.H.