

Rpt. 13.

No. 8423.

REPORT ON ELECTRIC FITTINGS.

(OTHER THAN FOR THE PROPULSION OF THE VESSEL)

Date of writing Report *8 March 1923* When handed in at Local Office *15 March 1923* Port of *Dundee*No. in Survey held at *Dundee* Date, First Survey *16th Oct. 1922* Last Survey *10th March 1923*
Reg. Book. on the *S.S. "British Commodore"* (Number of Visits *16*)Built at *Dundee* By whom built *Caledon S.B. & L. Co* Yard No. *283* When built *1923*Owners *British Tanker Co. Ltd.* Port belonging to *London*Electric Light Installation fitted by *Sunderland Forge Co* Contract No. When fitted *1923*System of Distribution *Lower 3 phase Alternating, Lighting 110 D.C. two wire*Pressure of supply for Lighting *110* volts, Heating *-* volts, Power *220* volts.Direct or Alternating Current, Lighting *Direct* Power *Alternating*If alternating current system, state frequency of periods per second *50*Has the Automatic Governor been tested and found efficient when the whole load is suddenly thrown on or off *yes* ✓Generators, do they comply with the requirements regarding overload *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 *-*, is an adjustable regulating resistance fitted inseries with each shunt field *yes* ✓Are all terminals accessible and clearly marked *yes* ✓, are they so spaced or shielded that they cannot be accidentally earthed,or short circuited *yes* ✓ Are the lubricating arrangements of the generators as per Rule *yes* ✓Position of Generators *Justo Alternators Port & Starboard on Gen platform, Steam motor generators on platform below*,is the ventilation in way of the generators satisfactory *yes* ✓, are they clear of all inflammable material *-*,

if situated near unprotected woodwork or other combustible material, state distance of same horizontally from or vertically above the generators

and *-*, are the generators protected from mechanical injury and damage from water, steam or oil *-*,are their axis of rotation fore and aft *yes* ✓Earthing, are the bedplates and frames of the generating plant efficiently earthed *yes* ✓ are the prime movers andtheir respective generators in metallic contact *yes* ✓Main Switch Boards, where placed *On Generator platform for power & below for lighting*

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 unprotectedwoodwork or other combustible material, state distance of same horizontally from or vertically above the switchboards *-* and *-*,are they constructed wholly of durable, incombustible non-absorbent materials *yes* ✓, is all insulation of high dielectric strength and ofpermanently high insulation resistance *yes* ✓, if semi-insulating material is used, are all conducting parts connected to one poleinsulated from the slab with mica or micanite and the slab similarly insulated from its framework *none used*, and is theframe effectively earthed *yes* ✓ Are the following fittings as per Rule, viz.:— spacing or shielding of live parts*yes* ✓, accessibility of all parts *yes* ✓, absence of fuses on back of board *yes* ✓, proportion of omnibusbars *yes* ✓, individual fuses to voltmeter, pilot or earth lamp *yes* ✓, connections of switches *yes* ✓Main Switchgear, description of switchgear for each generator and each outgoing circuit, and arrangement of equalizer switches *Circuit breakers with**overload release for each generator & for each circuit & 3 way quick break knife switch.**Lighting a Double Pole main switch & double pole change over circuit switches*Instruments on main switchboard *4* ammeters *2* voltmeters *1* 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 *earth lamps*Switches, Circuit Breakers and Fusible Cut-outs, do these comply with the requirements of the Rules *yes* ✓Section and Distribution Boards, is the construction, protection, insulation, material, and position of these as per rule *yes* ✓

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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. Amperes.	Approximate Length. (Feet.)	Insulated with	HOW PROTECTED.
				No.	Diameter.				
	BALLAST PUMP						3 CORE.		
	MAIN BILGE LINE PUMP ...	1	.0040	4	.036	14.3 ✓	52	paper	L. L. A. & Braided
	GENERAL SERVICE PUMP ...								
	EMERGENCY BILGE PUMP ...								
	SANITARY PUMP								
	MAN CIRC. SEA WATER PUMPS ...	2	.1009	19	.083	125 ✓	63	"	"
	CIRC. FRESH WATER PUMPS								
	AIR COMPRESSOR								
	FRESH WATER PUMP								
	ENGINE TURNING GEAR ...								
	ENGINE REVERSING GEAR ...								
	LUBRICATING OIL PUMP ...	1	.0040	4	.036	19 ✓	40	"	"
	OIL FUEL TRANSFER PUMP								
	WINDLASS								
	WINCHES, FORWARD								
	WINCHES, AFT								
	STEERING GEAR	1	.0221	4	.064	50 ✓	44	"	"
	WORKSHOP MOTOR								
	VENTILATING FANS								
	Bored through pump	2	.0221	4	.064	86	54	"	"
	Main feed pump	1	.0221	4	.064	50 ✓	45	"	"
	H.G. lighting set	1	.0221	4	.064	50 ✓	25	"	"
	Refrigerator	1	.0040	4	.036	26 ✓	30	"	"
	4th Naval pump	1	.0040	4	.036	50	40	Rubber ✓	"
	Number and system	1	.0040	4	.036	8.5 ✓	25	"	Each 2.5 ft. long

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.

p.pro. THE SUNDERLAND FORGE & ENGINEERING CO. LTD.

Electrical Engineers.

Date 27th Feb. 1923.

Director.

COMPASSES.

Distance between electric generators or motors and standard compass 240 feet

Distance between electric generators or motors and steering compass 260 feet

The nearest cables to the compasses are as follows:—

A cable carrying 28 Ampères on the ~~left~~ from standard compass 10 feet from steering compass.

A cable carrying 28 Ampères 10 feet from standard compass on the ~~right~~ steering compass.

A cable carrying 6-6 Ampères 6 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. *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.

Builder's Signature.

Date

8/2/23.

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

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

This installation has been fitted onboard in accordance with the Rules. The materials and workmanship are sound and good, it has been tried under working conditions and found satisfactory in all respects.

It is submitted that
this vessel is eligible for
THE RECORD. Elec. Light

16/3/23

Total Capacity of Generators Kilowatts

The amount of Fee ... £ 36 : 11 :
1/2 fee & expenses to Glasgow &c.
Travelling Expenses (if any) £ 2 : 2 :
When applied for, 15/3/1923.
When received, See debit book.

J. S. Rankin & J. S. Sellar
Surveyor to Lloyd's Register of Shipping.

Committee's Minute TUE. 20 MAR. 1923

Assigned

1m. 3.22.—Transfer.
(The Surveyors are requested not to write on or below the space for Committee's Minute.)



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