

REPORT ON ELECTRICAL EQUIPMENT.

(OTHER THAN FOR THE PROPULSION OF THE VESSEL)

JAN 1949

Date of writing Report 29th December 1948 When handed in at Local Office 31st JAN 1949 Port of GLASGOW
 No. in Survey held at GREENOCK Date First Survey 1st AUGUST Last Survey 24th DECEMBER 1948
 Reg. Book. 90746 on the M.V. 'BRITISH PROGRESS' (No. of Visits 7)
 Built at GLASGOW By whom built GLYNSWOOD S.B.C. LTD Yard No. 89 When built 1948
 Owners BRITISH TANKER CO. LTD Port belonging to LONDON
 Installation fitted by SUNDERLAND FORGE & ENGINEERING CO. LTD When fitted 1948
 Is vessel equipped for carrying Petroleum in bulk YES Is vessel equipped with D.F. YES E.S.D. YES Gy.C. YES Sub.Sig. YES Radar YES

Plans, have they been submitted and approved YES System of Distribution TWO WIRE Voltage of Lighting 110
 Heating YES Power 110 D.C. or A.C., Lighting D.C. Power D.C. If A.C. state frequency ✓
 Prime Movers, has the governing been found as per Rule when full load is thrown on and off YES Are turbine emergency governors fitted with a trip switch ✓ Generators, are they compound wound YES and level compounded under working conditions YES
 if not compound wound state distance between generators ✓ and from switchboard ✓ Are the generators arranged to run in parallel YES, 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
 Position of Generators STARBOARD SIDE OF ENGINE ROOM
 is the ventilation in way of generators satisfactory YES are they clear of inflammable material and protected from mechanical injury and damage from water, steam and oil YES Switchboards, where are main switchboards placed NEAR GENERATORS
 are they in accessible positions, free from inflammable gases and acid fumes and protected from mechanical injury and damage from water, steam and oil YES, what insulation is used for the panels SINDANYO, 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 construction as per Rule, including locking of screws and nuts YES Description of Main Switchgear for each generator and arrangement of equaliser switches 700 AMP. TRIPLE POLE CIRCUIT-BREAKER FITTED WITH OVERLOAD AND REVERSE CURRENT TRIPS

and the switch and fuse gear (or circuit breakers) for each outgoing circuit 300 AMP. 200 AMP. 100 AMP. 60 AMP. OR 30 AMP. D.P. KNIFE PATTERN SWITCHES WITH 'ZED' TYPE FUSES

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 are the ammeters and reversed current protection devices connected on the pole opposite to the equaliser connection YES 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 make of fuses SIEMENS 'Z' TYPE, are all fuses labelled YES If circuit breakers are provided for the generators, at what overload do they operate FULL LOAD, and at what current do the reversed current protective devices operate 10% - 15%

Joint Boxes, Section Boards and Distribution Boards, is the construction as per Rule YES
 Cables, are they insulated and protected as per Rule 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 3.8 VOLTS, are the ends of all cables having a sectional area of 0.01 square inch and above provided with soldering sockets YES Are all paper insulated and varnished cambric insulated cables sealed at the ends 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 any cables laid under machines or floorplates NO, if so, are they adequately protected ✓ Are cables in machinery spaces, galleys, laundries, etc., lead covered YES or run in conduit ✓ or of the "HR" type ✓ State how the cables are supported or protected MAINS - L.C.A.B. CABLES CLIPPED TO STEEL PLATE WITH COVER FITTED. MACHINERY SPACE - L.C.A.B. CABLES CLIPPED TO STEELWORK OR TRAY ACCOMMODATION. L.C.B. CABLE CLIPPED TO WOODWORK.

Are all lead sheaths, armouring and conduits effectually bonded and earthed 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 Refrigerated chambers, are the cables and fittings as per Rule ✓

Insulation Tests, has the insulation resistance of all circuits and apparatus been tested and found satisfactory...../ES

DESCRIPTION OF GENERATOR.	No. of	MAKER.	RATED AT				PRIME MOVER.	
			Kilowatts per Generator.	Volts.	Ampères.	Revs. per Min.	TYPE.	MAKER.
MAIN ...	2	SUNDERLAND FORGE & ENGINEERING CO. LTD.	75	110	682	500	STEAM ENGINE.	BELLISS & MORCOM.
EMERGENCY ...								
ROTARY								
TRANSFORMER								

DESCRIPTION.	KILOWATTS.	CONDUCTORS.		MAXIMUM CURRENT IN AMPERES.		APPROX. LENGTH (lead plus return feet).	INSULATION.	PROTECTIVE COVERING.
		No. in Parallel per Pole.	Sectional Area or No. and Dia. of Strands. Sq. ins. or sq. mm.	In the Circuit.	Rule.			
MAIN GENERATOR	75	2	37/103	682	770	58	V.C.	L.C.
" " EQUALISER		1	37/103	-	385	29	V.C.	L.C.
EMERGENCY GENERATOR								
ROTARY TRANSFORMER: MOTOR								
" " GENERATOR...								

[illegible]

DESCRIPTION.	CONDUCTORS.		MAXIMUM CURRENT IN AMPERES.		APPROX. LENGTH (lead plus return feet).	INSULATION.	PROTECTIVE COVERING.
	No. In Parallel per Pole.	Sectional Area or No. and Dia. of Strands. Sq. ins. or sq. mm.	In the Circuit.	Rule.			
WIRELESS	1	37/.103	70 ✓	38.5	502	V.C.	L.C.B.
NAVIGATION.	1	7/.064	30 ✓	75	112	V.C.	L.C.B.
UPPER BRIDGE DECK LIGHTING D.B.	1	7/.044	22 ✓	31	72	RUBBER	L.C.B.
BRIDGE DECK MID. LIGHTING D.B.	1	7/.044	15 ✓	31	30	RUBBER	L.C.B.
ACCOM. LIGHTING D.B. AFT.	1	7/.064	24 ✓	75	286	V.C.	L.C.B.
ACCOM. LIGHTING D.B. STARBOARD AFT.	1	7/.044	14 ✓	31	160	RUBBER	L.C.B.
ACCOM. LIGHTING D.B. PORT AFT.	1	7/.044	14 ✓	31	116	RUBBER	L.C.B.
POOP DECK ACCOM. LIGHTING D.B. PORT	1	7/.044	18 ✓	31	160	RUBBER	L.C.B.
POOP DECK ACCOM. LIGHTING D.B. STARBOARD	1	7/.044	16 ✓	31	136	RUBBER	L.C.B.
ENGINE ROOM LIGHTING D.B. TOP PORT	1	7/.044	12 ✓	31	140	RUBBER	L.C.A.B.
ENGINE ROOM LIGHTING D.B. TOP STBD.	1	7/.044	12 ✓	31	240	RUBBER	L.C.A.B.
ENGINE ROOM LIGHTING D.B. BOTTOM PORT.	1	7/.044	12 ✓	31	180	RUBBER	L.C.A.B.
ENGINE ROOM LIGHTING D.B. BOTTOM STBD.	1	7/.044	12 ✓	31	72	RUBBER	L.C.A.B.
ENGINE ROOM FLU. D.B.	1	19/.052	81 ✓	104	104	V.C.	L.C.A.B.
REFRIG. D.B.	1	7/.064	45 ✓	75	386	V.C.	L.C.A.B.
RA DAR.	1	7/.044	25 ✓	31	184	RUBBER	L.C.B.
GYRO	1	7/.029	10 ✓	15	84	RUBBER.	L.C.B.

ALL IMPORTANT MOTORS TO BE ENUMERATED.	No.	B.H.P.							
TURNING GEAR	1	10	1	19.052	80 ✓	104	152	V.C.	L.C.A.B.
MID BOAT WINCHES.	2	7.5	1	19.052	65 ✓	104	140	V.C.	LCB.
HET BOAT WINCHES.	2	7.5	1	19.052	65 ✓	104	212	V.C.	LCB.
REFRIG COMPRESSORS	2	4	1	7.064	35 ✓	75	32	V.C.	L.C.A.B.
PURIFIERS	2	2.5	1	7.044	22 ✓	31	270	RUBBER	L.C.A.B.
HET VENT FANS.	2	2.75	1	7.044	24 ✓	31	64	RUBBER	LCB.
MID VENT FANS.	2	2	1	7.044	17 ✓	31	180	RUBBER	LCB.
ENGINE ROOM VENT FANS	1	1.5	1	7.044	14 ✓	31	162	RUBBER	L.C.A.B.
PRIMING PUMP	1	1.5	1	7.044	14 ✓	31	250	RUBBER	L.C.A.B.

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.

P.Pro. THE SUNDERLAND FORGE & ENGINEERING CO. LTD.

Electrical Contractors.

Date 30/12/48

COMPASSES.

Have the compasses been adjusted under working conditions.

ELYTHWOOD SHIPBUILDING CO. LTD.

Builder's Signature.

Date

10/1/49

Have the foregoing descriptions and schedules been verified and found correct.

Is this installation a duplicate of a previous case.

If so, state name of vessel.

BRITISH COUNCILLOR

Plans. Are approved plans forwarded herewith.

No

If not, state date of approval.

25TH MARCH 1948

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

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

The electrical installation of this vessel has been fitted on board under Special Survey, tested under working conditions and found satisfactory. The quality of materials and workmanship is good.

8.0.0.1	3.0	521	401	520.01			
8.0.0.1	3.0	541	401	520.01			
8.0.0.1	3.0	515	401	520.01			
8.0.0.1	3.0	58	25	520.01			
8.0.0.1	3.0	520	10	55	440.01	1	30
8.0.0.1	3.0	58	10	45	440.01	1	30
8.0.0.1	3.0	520	10	45	440.01	1	30
8.0.0.1	3.0	520	10	45	440.01	1	30

Note sub 1572/49

Total Capacity of Generators. 150 Kilowatts.

The amount of Fee ...

£ 62.10

When applied for,

18 JAN 1949

When received,

19

Travelling Expenses (if any) £

Surveyor to Lloyd's Register of Shipping.

Committee's Minute.

GLASGOW 18 JAN 1949

Assigned

SEE ACCOMPANYING MACHINERY REPORT



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