

REPORT ON ELECTRICAL EQUIPMENT.

(OTHER THAN FOR THE PROPULSION OF THE VESSEL)

Date of writing Report 31ST AUGUST 1950 When handed in at Local Office 5.9.1950 Received at London Office 7 SEP 1950 Port of GLASGOW

No. in Survey held at GREENOCK & PORT GLASGOW Date, First Survey 4TH APRIL Last Survey 9TH AUGUST 1950

Reg. Book. (No. of Visits 11)

36738 on the M.V. 'BRITISH PEER' Tons { Gross
Net

Built at PORT GLASGOW By whom built LITHGOWS. LTD Yard No. 1043 When built 1950

Owners BRITISH TANKER CO LTD Port belonging to LONDON

Installation fitted by MESSRS SUNDERLAND FORGE & ENGINEERING CO LTD When fitted 1950

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 YES

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. YES Generators, are they compound wound YES, and level compounded under working conditions. YES, if not compound wound state distance between generators. YES and from switchboard. YES 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. YES Have certificates of test for machines under 100 kw. been supplied. YES and the results found as per Rule YES

Position of Generators STEAM SET - ON FLAT STARBORD SIDE OF ENGINE ROOM DIESEL SETS PORT & STARBORD SIDES 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 ADJACENT TO STEAM DRIVEN GENERATOR 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 YES 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 OR 300 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 DOUBLE POLE KNIFE PATTERN SWITCHES WITH FUSES

Are compartments containing switchboards composed of fire-resisting material or lined as per Rule YES Instruments on main switchboard THREE ammeters THREE voltmeters YES 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 'ZED' TYPE, are all fuses labelled YES If circuit breakers are provided for the generators, at what overload do they operate 150% FULL LOAD, and at what current do the reversed current protective devices operate 10% - 15% F.L.

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 YES, state maximum fall of pressure between bus bars and any point under maximum load 5.2 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 YES Are cables in machinery spaces, galleys, laundries, etc., lead covered YES or run in conduit YES or of the "HE" type YES State how the cables are supported or protected MAINS L.C.B.B. CABLES CLIPPED TO GALVANISED PLATE WITH COVER PLATE FITTED. MACHINERY SPACE L.C.B.B. CABLES CLIPPED TO TRAY OR STEELWORK. 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 YES

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

PARTICULARS OF GENERATING PLANT.

PARTICULARS OF GENERATOR							PRIME MOVER.	
DESCRIPTION OF GENERATOR.	No. of	MAKER.	RATED AT			TYPE.	MAKER.	
			Kilowatts per Generator.	Volts.	Ampères.			
MAIN	2	SUNDERLAND FORGE & CO.	75	110	682	500	DIESEL	BRITISH POLAR
	1	SUNDERLAND FORGE & CO.	30	110	273	500	STEAM.	SUNDERLAND FORGE & CO.
EMERGENCY ...								
ROTARY TRANSFORMER								

DESCRIPTION.	KILOWATTS.	CONDUCTORS.		MAXIMUM CURRENT IN AMPERES.		APPROX. LENGTH (lead plus return feed).	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 ✓	816	245	V.C.	L.C.F.B.
" " EQUALISER	1	1	37/103	-	403	122	V.C.	L.C.F.B.
" " "	30	2	19/083	273 ✓	404	40	V.C.	L.C.F.B.
" " "		1	19/083	-	202	20	V.C.	L.C.F.B.
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	7/064	30 ✓	80	300	V.C.	L.C.B.
NAVIGATION	1	7/064	30 ✓	80	128	V.C.	L.C.B.
UPPER BRIDGE DECK LIGHTING D.B.	1	7/064	24 ✓	80	40	V.C.	L.C.B.
BRIDGE DECK STARBOARD LIGHTING D.B.	1	7/064	23 ✓	80	25	V.C.	L.C.B.
BRIDGE DECK MIDSHIP LIGHTING D.B.	1	7/064	15 ✓	31	44	RUBBER	L.C.B.
AFT ACCOM. LIGHTING AND POWER D.B.	1	7/064	29 ✓	80	190	V.C.	L.C.B.
POOP DECK PORT LIGHTING D.B.	1	7/044	18 ✓	31	45	RUBBER	L.C.B.
ENGINE ROOM L ^{TS} D.B. (PORT TOP)	1	7/044	12 ✓	31	60	RUBBER	L.C.B.
ENGINE ROOM L ^{TS} D.B. (STBD BOTTOM)	1	7/044	12 ✓	31	40	RUBBER	L.C.B.
SEARCHLIGHT (WIRING ONLY)	1	19/083	60 ✓	202	560	V.C.	L.C.B.
GYRO COMPASS.	1	7/029	10 ✓	15	120	RUBBER	L.C.B.
RADAR	1	7/064	45 ✓	80	130	V.C.	L.C.B.
ENGINE ROOM AUXILIARY D.B. N ^o 1	1	19/064	92 ✓	143	40	V.C.	L.C.B.
ENGINE ROOM AUXILIARY D.B. N ^o 2.	1	7/064	36 ✓	80	80	V.C.	L.C.B.
ENGINE ROOM AUXILIARY D.B. N ^o 3	1	7/064	64 ✓	80	75	V.C.	L.C.B.

ALL IMPORTANT MOTORS TO BE ENUMERATED.	No.	B.H.P.							
TURNING GEAR	1	10	1	7/064	80✓	80	100	V.C.	L.C.F.B.
HUX. BOILER FAN.	1	7	1	7/064	67✓	80	180	V.C.	L.C.F.B.
DOMESTIC REFRIGERATOR.	2	4	1	7/064	35✓	80	50	V.C.	L.C.F.B.
LATHE	1	3	1	7/044	26✓	31	20	RUBBER	L.C.F.B.
PURIFIERS	3	2.5	1	7/044	22✓	31	90	RUBBER	L.C.F.B.
PURIFIER	1	7.5	1	7/064	61✓	80	75	V.C.	L.C.F.B.
BOAT WINCHES	4	7.5	1	7/064	65✓	80	80	V.C.	L.C.B.
ACCOM. VENT FAN.	4	2.5	1	7/044	21✓	31	60	RUBBER	L.C.B.
ENGINE ROOM VENT FAN	2	1.5	1	7/044	12.7✓	31	35	RUBBER	L.C.F.B.
F.V. COOLING PUMPS.	2	1.0	1	7/029	10✓	15	80	RUBBER	L.C.F.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.

Per Pro. THE SUNDERLAND FORCE & ENGINEERING CO. LTD.

Electrical Contractors.

Date 1st September 1950.

COMPASSES.

Have the compasses been adjusted under working conditions.

YES

A. H. White

Builder's Signature.

Date 5/9/50

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

YES

Is this installation a duplicate of a previous case.

YES

If so, state name of vessel.

BRITISH PATRIOT

Plans. Are approved plans forwarded herewith.

No

If not, state date of approval.

5TH OCTOBER 1949

Certificates. Are certificates of test for motors engaged on essential sea 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 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.

Noted EUK 21/9/50

Total Capacity of Generators. 180 Kilowatts.

The amount of Fee ...

£ 67 : 0

When applied for,

AT GRK 19

When received,

Travelling Expenses (if any) £

: 16 :

19

Surveyor to Lloyd's Register of Shipping.

Committee's Minute.

GLASGOW 6 SEP 1950

Assigned.

Sec F.E. Machy Rpt Grk 24192



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Lloyd's Register
Foundation