

REPORT ON ELECTRICAL EQUIPMENT.

(OTHER THAN FOR THE PROPULSION OF THE VESSEL)

12 APR 1951

Received at London Office

Date of writing Report 2nd APRIL 1951 When handed in at Local Office _____ 19____ Port of GLASGOW
 No. in Survey held at PORT GLASGOW Date, First Survey 18th JANUARY Last Survey 9th MARCH 1951
 Reg. Book. _____ (No. of Visits _____)
91091 on the M.V. BRITISH PREMIER Tons Gross _____
Net _____
 Built at PORT GLASGOW By whom built LITHGOWS LTD Yard No. 1052 When built 1951
 Owners BRITISH TANKER CO LTD Port belonging to LONDON
 Installation fitted by MESSRS SUNDERLAND FORGE & ENGINEERING CO LTD When fitted 1951
 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 STARBOARD SIDE OF ENGINE ROOM. DIESEL SETS. PORT + STARBOARD 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% FL

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 "HR" type YES State how the cables are supported or protected MAINS - LCB CABLES CLIPPED TO
GALVANISED PLATE WITH COVERPLATE FITTED. MACHINERY SPACE. LCB CABLES CLIPPED TO
TRAY OR STEELWORK ACCOMMODATION. LCB. 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

Alternative Lighting, are the groups of lights in the engine and boiler rooms arranged as per Rule YES. Emergency Supply, state position YES.

Navigation Lamps, are they separately wired YES controlled by separate double pole switches and fuses YES. Are the switches and fuses in a position accessible only to the officers on watch YES, is an automatic indicator fitted YES. Is an alternative supply provided YES.

Secondary Batteries, are they constructed and fitted as per Rule YES, are they adequately ventilated YES. state battery capacity in ampere hours YES.

Fittings, are all fittings on weather decks, in stokeholds and engine rooms and wherever exposed to drip or condensed moisture, weatherproof YES. Are any fittings installed where readily combustible materials or inflammable or explosive dust or gases are likely to be present YES.

if so, how are they protected FLAMEPROOF FITTINGS INSTALLED IN CENTRACASTLE SPACE. PUMPROOM. FITTINGS COMPLY WITH PLAN APP. 28TH DECEMBER 1950 and where are the controlling switches fitted IN ACCOMMODATION SPACE. Are all fittings suitably ventilated YES.

Searchlight Lamps, No. of YES, whether fixed or portable YES, are they of the carbon arc or of the filament type YES.

Heating and Cooking, is the general construction as per Rule YES, are the frames effectually earthed YES, are heaters in the accommodation of the convection type YES. Motors, are all motors constructed and installed as per Rule and placed in well-ventilated compartments in which inflammable gases cannot accumulate and protected from damage from water, steam and oil YES.

Are motors coupled to oil fuel transfer and pressure pumps capable of being stopped from a position accessible in the event of fire in the pump compartment YES. Have motors of 100 BHP and over been inspected by the Surveyors during manufacture and testing YES.

Have certificates of test for motors under 100 BHP intended for essential sea services been supplied and the results found as per Rule YES.

Control Gear and Resistances, are they constructed and fitted as per Rule YES. Lightning Conductors, where required are they fitted as per Rule YES. 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 YES, are all fuses of an Approved Cartridge Type YES, make of fuse SIEMENS ZED TYPE. Are the fittings for pump rooms, 'tween deck spaces, etc., in accordance with the special requirements for such ships SEE ABOVE. Are the cables lead covered as per Rule YES.

E.S.D., if fitted state maker HUGHES TYPE MS21. Location of transmitter FRAMESPACE 37-38 and receiver FRAMESPACE 37-38.

Spare Gear, if the vessel is for open sea service have spares been provided as per Rule and suitably stored in dry situations YES.

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

PARTICULARS OF GENERATING PLANT.

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

GENERATOR CABLES.

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	816	245	V.C.	L.C.B.
" " EQUALISER		1	37/103	-	408	122	V.C.	L.C.B.
" " "	30	2	19/083	273	404	40	V.C.	L.C.B.
" " "		1	19/083	-	202	20	V.C.	L.C.B.
EMERGENCY GENERATOR								
ROTARY TRANSFORMER: MOTOR								
" " GENERATOR								

MAIN DISTRIBUTION CABLES (to Section Boards, Distribution Fuse Boards, etc.).

DESCRIPTION.								
MIDSHIP SECTION BOARD.	1	37/103	244	408	240	V.C.	L.C.B.	
WIRELESS & RADAR SECTION.	1	37/103	75	408	240	V.C.	L.C.B.	
HFT CREW LIGHTING AND POWER SECTION.	1	37/072	192	260	80	V.C.	L.C.B.	
ENGINEER ROOM LIGHTING SECTION.	1	7/064	53	80	45	V.C.	L.C.B.	

LIGHTING, HEATING, WIRELESS, NAVIGATION LIGHTS, ETC., CABLES.

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 STBD LIGHTING D.B.	1	7/064	23	80	25	V.C.	L.C.B.
BRIDGE DECK MIDSHIP LIGHTING D.B.	1	7/044	15	31	44	RUBBER	L.C.B.
HFT 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.
ENGINEER ROOM LT'S D.B. (PORT TOP)	1	7/044	12	31	60	RUBBER	L.C.B.
ENGINEER ROOM LT'S 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.	1	7/029	10	15	120	RUBBER	L.C.B.
RADAR.	1	7/064	45	80	130	V.C.	L.C.B.
ENGINEER ROOM HUX. D.B. N° 1.	1	19/064	92	143	40	V.C.	L.C.B.
ENGINEER ROOM HUX. D.B. N° 2.	1	7/064	36	80	80	V.C.	L.C.B.
ENGINEER ROOM HUX. D.B. N° 3.	1	7/064	64	80	75	V.C.	L.C.B.

MOTOR CABLES.

ALL IMPORTANT MOTORS TO BE ENUMERATED.	No.	B.H.P.							
TURNING GEAR.	1	10	1	7/064	80	80	100	V.C.	L.C.B.
HUX. BOILER FAN	1	7	1	7/064	67	80	180	V.C.	L.C.B.
DOMESTIC REFRIG.	2	4	1	7/064	35	80	50	V.C.	L.C.B.
LATHE.	1	3	1	7/044	25	31	20	RUBBER	L.C.B.
PURIFIERS	2	7.5	1	7/064	60	80	90	V.C.	L.C.B.
PURIFIERS.	3	2.5	1	7/044	22	31	75	RUBBER	L.C.B.
BOAT WINCHES.	4	7.5	1	7/064	65	80	80	V.C.	L.C.B.
ACCOMMODATION VENT FANS	4	2.5	1	7/044	21	31	60	RUBBER	L.C.B.
ENGINEER ROOM VENT FANS.	2	1.5	1	7/044	12	31	85	RUBBER	L.C.B.
FUEL VALVE COOLING PUMPS	2	1	1	7/029	9.7	15	80	RUBBER	L.C.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 FORGE & ENGINEERING CO. LTD.

Electrical Contractors.

Date 3.4.51.

J. B. Shanker

COMPASSES.

Have the compasses been adjusted under working conditions.

YES.

LITHGOWS LIMITED.

J. B. Cunningham Secretary

Builder's Signature.

Date 6th April 1951

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 PEER

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 *SW* 23/4/51

Total Capacity of Generators. 180 Kilowatts.

The amount of Fee ... £ 69: 0

When applied for,

19

Travelling Expenses (if any) £ 1: 2

When received,

19

J. M. Gardiner
Surveyor to Lloyd's Register of Shipping.

Committee's Minute.

11 APR 1951

Assigned.

SEE ACCOMPANYING MACHINERY REPORT

2m.0.46.—Transfer. (MADE AND PRINTED IN ENGLAND.)
(The Surveyors are requested not to write on or below the space for Committee's Minute.)



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