

REPORT ON ELECTRICAL EQUIPMENT.

(OTHER THAN FOR THE PROPULSION OF THE VESSEL)

4 MAY 1950

Received at London Office

Date of writing Report 6th APRIL 1950 When handed in at Local Office 2.5.1950 Port of GLASGOW
 No. in Survey held at GLASGOW Date, First Survey 18th OCTOBER 49 Last Survey 27th MARCH 1950
 Reg. Book. (No. of Visits 8)

40515 on the TREGLISSON Tons { Gross.....
 Net.....
 Built at PORT GLASGOW By whom built W^M HAMILTON & CO. LTD Yard No. 434 When built 1950
 Owners HAIN S.S. 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 No 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 No, 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 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 STARBOARD SIDE OF
ENGINE ROOM

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 400 AMP. D.P. CIRCUIT BREAKER FITTED WITH OVERLOAD

TRIPS.

and the switch and fuse gear (or circuit breakers) for each outgoing circuit D.P. CHANGEOVER SWITCH WITH FUSES

Are compartments containing switchboards composed of fire-resisting material or lined as per Rule YES Instruments on main switchboard Two
 ammeters Two 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

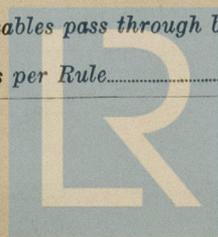
EARTH LAMPS.

Switches, Circuit Breakers and Fuses, are they as per Rule YES, are the fuses an Approved Type YES,
 make of fuses G.E.C., are all fuses labelled YES If circuit breakers are provided for the generators, at what
 overload do they operate 50% OVERLOAD, and at what current do the reversed current protective devices operate YES

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 5.25 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 - H.R.B. CABLES IN PIPE

MACHINERY SPACE. L.C.H.B. CABLES CLIPPED TO TRAY. ACCOMMODATION. L.C. 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
 effectually 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 YES 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 NO if so, how are they protected YES

and where are the controlling switches fitted YES 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 YES Are the fittings for pump rooms, tween deck spaces, etc., in accordance with the special requirements for such ships YES Are the cables lead covered as per Rule YES

E.S.D., if fitted state maker MARCONI-SEMGRAH location of transmitter AND and receiver FRANIE SPACE 139-140

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	40	110	364	600	STEAM	SUNDERLAND FORGE B.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 ...	40	1	37/103	364	403	60	V.C.	L.C.
" " EQUALISER ...								
EMERGENCY GENERATOR ...								
ROTARY TRANSFORMER: MOTOR								
" " GENERATOR...								

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

DESCRIPTION.	No. in Parallel per Pole.	Sectional Area or No. and Dia. of Strands. Sq. ins. or sq. mm.	In the Circuit.	Rule.	APPROX. LENGTH (lead plus return feet).	INSULATION.	PROTECTIVE COVERING.
WIRELESS AND NAVIGATION.	1	19/064	38.5	83	450	RUBBER	H.R.B.
MID. ACCOMMODATION FORWARD LIGHTING + POWER	1	19/083	100	118	360	RUBBER	H.R.B.
MID. ACCOMMODATION AFT LIGHTING + POWER	1	19/064	68	83	180	RUBBER	H.R.B.
CREW ACCOMMODATION LIGHTING + POWER	1	19/064	52	83	660	RUBBER	H.R.B. IN PIPE
ENGINE ROOM POWER BOARD.	1	7/064	36	80	120	V.C.	L.C.

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	15	46	45	RUBBER	L.C.
NAVIGATION	1	7/044	12	31	60	RUBBER	L.C.
BOAT DECK ACCOM. LIGHTING.	1	7/029	12	15	90	RUBBER	L.C.
MIDSHIP ACCOM. SHELTER DECK FWD. PORT.	1	7/044	12.5	31	180	RUBBER	L.C.
MIDSHIP ACCOM. SHELTER DECK FWD. STBD.	1	7/044	19.5	31	12	RUBBER	L.C.
MIDSHIP ACCOM. SHELTER DECK AFT. PORT.	1	7/044	21	31	140	RUBBER	L.C.
MIDSHIP ACCOM. SHELTER DECK AFT. STBD.	1	7/044	26	31	12	RUBBER	L.C.
SHELTER DECK AFT LIGHTING	1	7/044	12	31	6	RUBBER	L.C.
UPPER DECK AFT LIGHTING.	1	7/044	14	31	60	RUBBER	L.C.
ENGINE ROOM LIGHTING.	1	7/064	20	80	300	V.C.	L.C.
FORWARD CARGO LIGHTING.	1	7/064	13	46	270	RUBBER	H.R.B. IN PIPE
RADAR AND GYRO D.R.	1	19/064	53	83	300	RUBBER	H.R.B.
DOMESTIC REFRIGERATOR	1	19/064	56	83	420	RUBBER	H.R.B. IN PIPE

MOTOR CABLES.

ALL IMPORTANT MOTORS TO BE ENUMERATED.	No.	B.H.P.	No. in Parallel per Pole.	Sectional Area or No. and Dia. of Strands. Sq. ins. or sq. mm.	In the Circuit.	Rule.	APPROX. LENGTH (lead plus return feet).	INSULATION.	PROTECTIVE COVERING.
DOMESTIC REFRIGERATOR	1	5	1	7/064	42	46	12	RUBBER	L.C.
VENT. FANS.	3	3	1	7/044	25	31	150	RUBBER	L.C.
FRESH WATER PUMP.	1	15	1	1/064	4	10	360	RUBBER	L.C.
WORKSHOP.	1	3	1	7/044	26	31	100	RUBBER	L.C.

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 17th April 1950.

J. O. Skayte

COMPASSES.

Have the compasses been adjusted under working conditions.....

YES

WILLIAM HAMILTON & CO., LIMITED.

James Hall

Secretary.

Builder's Signature.

Date.....

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

YES

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.....

4th July 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.

Notes End 12/5/50.

Total Capacity of Generators..... 80 ✓ Kilowatts.

The amount of Fee £ 52: 0 ✓ When applied for, AT GRK 19

Travelling Expenses (if any) £ : : When received, 19

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

Committee's Minute GLASGOW 13 MAY 1950 CD.

Assigned Sec F.E Machinery Rpt Gls 75333

*151
2.5.50*

912

2m. 9.40.—Transfer. (MADE AND PRINTED IN ENGLAND.)
(The Surveyors are requested not to write on or below the space for Committee's Minute.)

