

23 SEP 1953

Rpt. 13.

No. 2330Y.

REPORT ON ELECTRICAL EQUIPMENT.

(OTHER THAN FOR THE PROPULSION OF THE VESSEL)

23 SEP 1953

Date of writing Report SEPTEMBER 1953 When handed in at Local Office 11th SEPTEMBER 1953 Port of LEITH Received at London Office

No. in Survey held at BURNTISLAND Date, First Survey 8th JULY 1953 Last Survey 4th SEPTEMBER 1953
Reg. Book. SUPPLEMENT (No. of Visits 5)

40110 on the SINGLE SCREW MOTOR VESSEL "TEESWOOD" Tons (Gross 1246) (Net 633)

Built at BURNTISLAND By whom built THE BURNTISLAND S.B.C. Ltd Yard No. 359 When built 1953

Owners CONSTANTINE SHIPPING Co., Ltd. Port belonging to MIDDLESBROUGH

Installation fitted by THE BURNTISLAND SHIPBUILDING Co., Ltd. When fitted 1953

Is vessel equipped for carrying Petroleum in bulk NO Is vessel equipped with D.F. NO E.S.D. YES Gy.C. YES Sub.Sig. NO Radar YES

Plans, have they been submitted and approved YES System of Distribution TWO-WIRE Voltage of Lighting 220

Heating 220 Power 220 D.C. or A.C., Lighting DC Power DC 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

Are the generators arranged to run in parallel YES Is the compound winding connected to the negative or positive pole NEGATIVE

Have machines 100 kw. and over been inspected by the Surveyors during manufacture and testing - Have certificates of test for machines under 100 kw. been supplied and the results found as per Rule YES Position of Generators IN MOTOR 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 ON FLAT AFT END OF MOTOR ROOM 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 A DOUBLE POLE CIRCUIT BREAKER FITTED WITH OVERLOAD & REVERSE CURRENT TRIPS & SINGLE POLE EQUALISER SWITCH IN CENTRE.

and the switch and fuse gear (or circuit breakers) for each outgoing circuit DOUBLE POLE SWITCHES & DOUBLE POLE FUSES.

Are compartments containing switchboards composed of fire-resisting material or lined as per Rule YES Instruments on main switchboard 3 ammeters 2 voltmeters - synchronising devices. For compound machines in parallel are the ammeters and reverse current protection devices connected on the pole opposite to the equaliser connection YES Earth Testing, state means provided 2-15 WATT METAL FILAMENT LAMPS Preference Tripping, state if provided NO, and tested -

Switches, Circuit Breakers and Fuses, are they as per Rule YES, are the fuses an Approved Type YES make of fuses "ARTIC", are all fuses labelled YES If circuit breakers are provided for the generators, at what overload do they operate 150% FULL LOAD CURRENT, and at what current do the reverse current protective devices operate 10/15% 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 7 volts. Are all paper insulated and varnished cambric insulated cables sealed at the ends YES

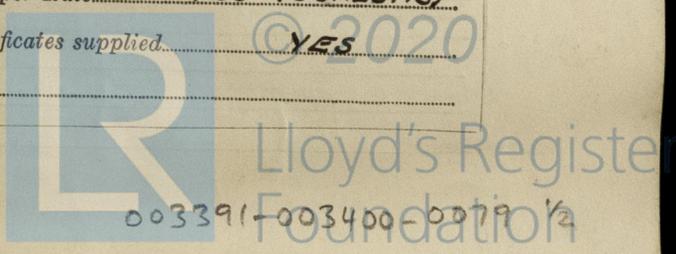
Are all the cable runs in accessible positions not exposed to drip or accumulation of water or oil, high temperatures or risk of mechanical damage YES, are any cables laid under machines or floorplates NO, if so, are they adequately protected - State type of cables (if in conduit this should also be stated) in machinery spaces L.C. ARMoured & B10, galleys V.C. ASBESTOS IN CONDUIT and laundries - State how the cables are supported or protected WHERE LEAD COVERED

ARMoured & BRAIDED CABLE SUPPORTED BY GALVANISED CLIPS, WHERE LEAD COVERED ONLY, SUPPORTED BY BRASS SADDLES & PROTECTED WHERE LIABLE TO MECHANICAL DAMAGE.

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 (DOMESTIC)

Have refrigeration fan motors been constructed under survey - and test certificates supplied YES

Are the motors accessible for maintenance at all times YES



23 SEP 53

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

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, fitted and adequately ventilated as per Rule -, state battery capacity in ampere hours - Where required to do so does it comply with 1948 International Convention -

Lighting, is fluorescent lighting fitted NO If so, state nominal lamp voltage - and compartments where lamps are fitted -

Fittings, are all fittings on weather decks, in stokeholds and engine rooms and wherever exposed to drip or condensed moisture, weatherproof YES

Searchlights, No. of ONE, whether fixed or portable FIXED, are they of the carbon arc or of the filament type FILAMENT TYPE

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 - 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 -

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

Lightning Conductors, where required are they fitted as per Rule -

Ships carrying Oil having a Flash Point of less than 150° F. Have all the special requirements of the Rules for such ships been complied with -, are all fuses of an Approved Cartridge Type -, make of fuse - Are the fittings for pump rooms, 'tween deck spaces, etc., in accordance with the special requirements for such ships - Are all cables lead covered as per Rule -

E.S.D., if fitted state maker MARCONI location of transmitter and receiver BETWEEN FRAMES 33/34 P & S.

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			TYPE.	PRIME MOVER.	MAKER.
			Kw. per Generator.	Volts.	Ampères.			
MAIN ...	1	CROMPTON PARKINSON	60	220	273	600	DIESEL	RUSTON & HORNSBY LTD
	2	CAMPBELL & ISHERWOOD	35	220	159	850	DIESEL	" & " "
EMERGENCY ...								
ROTARY TRANSFORMER								

GENERATOR CABLES.

DESCRIPTION.	No. of	Kw.	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	1	60	1	37/083	273	314	90	V.C.	L.C. ARM ²⁰ & B ²⁰
" EQUALISER	1	-	1	19/083	-	202	45	V.C.	L.C. ARM ²⁰ & B ²⁰
" SHUNT	1	-	1	7/029	-	15	45	V.I.R.	L.C. ARM ²⁰ & B ²⁰
MAIN GENERATORS	2	35	1	19/083	159	202	60	V.C.	L.C. ARM ²⁰ & B ²⁰
" EQUALISERS	2	-	1	19/064	-	143	30	V.C.	L.C. ARM ²⁰ & B ²⁰
" SHUNTS	2	-	1	7/029	-	15	30	V.I.R.	L.C. ARM ²⁰ & B ²⁰
EMERGENCY GENERATOR									
ROTARY TRANSFORMER: MOTOR									
" GENERATOR									

MAIN DISTRIBUTION CABLES (to Auxiliary Switchboards, etc.).

DESCRIPTION.	No. of	Kw.	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.			
WINCH SWITCHBOARD	1		1	37/072	190	260	180	V.C.	L.C. ARMoured & B ²⁰

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

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.			
OIL PURIFIERS & HEATERS SECT. B ²⁰	1	19/044	60	92	60	V.C.	L.C. ARMoured & B ²⁰
MOTOR ROOM AUXILIARIES SECT. B ²⁰	1	7/064	12	46	90	V.I.R.	" " " "
PANTRY ACCESSORIES D.F.B.	1	7/064	30	46	180	V.I.R.	" " " "
MIDSHIP ACCOMM ⁿ & GARGO LIGHTING D.F.B.	1	7/052	25	37	420	V.I.R.	" " " "
AFT ACCOMMODATION D.F.B.	1	7/052	34	37	120	V.I.R.	" " " "
WIRELESS	1	7/052	9	37	480	V.I.R.	" " " "
NAVIGATION & BRIDGE LIGHTING D.F.B.	1	7/036	13	24	480	V.I.R.	" " " "
MOTOR ROOM LIGHTING D.F.B.	1	7/036	14	24	48	V.I.R.	" " " "
REFRIGE MACHINERY D.F.B.	1	7/029	11	15	60	V.I.R.	" " " "
RADAR	1	7/036	5	24	480	V.I.R.	" " " "
GYRO COMPASS	1	7/029	5	24	480	V.I.R.	" " " "
LUBRICATING OIL HEATER	1	7/044	27	31	40	V.I.R.	" " " "
FUEL OIL HEATER	1	7/044	27	31	45	V.I.R.	" " " "

MOTOR CABLES.

ALL IMPORTANT MOTORS TO BE ENUMERATED.	No.	B.H.P.	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.			
WINDLASS	1	17	1	19/044	65	92	540	V.C.	L.C. ARMoured & B ²⁰
CAPSTAN	1	17	1	7/064	65	80	90	V.C.	" " " "
WINCHES	6	25	1	19/064	95	143	240	V.C.	" " " "
AIR COMPRESSORS	2	15	1	7/064	59	80	120	V.C.	" " " "
GENERAL SERVICE PUMP	1	10	1	7/064	40	46	105	V.I.R.	" " " "
BALLAST PUMP	1	10	1	7/064	40	46	105	V.I.R.	" " " "
LUBRICATING OIL PUMP	1	8	1	7/064	32	46	120	V.I.R.	" " " "
SANITARY PUMP	1	4	1	7/036	17	24	120	V.I.R.	" " " "
SALT WATER CIRCULATING PUMP	1	4	1	7/036	17	24	120	V.I.R.	" " " "
FUEL OIL TRANSFER PUMP	1	1	1	3/036	5	10	30	V.I.R.	" " " "
FRESH WATER PUMP	1	1 1/2	1	3/036	7	10	60	V.I.R.	" " " "
OIL PURIFIERS	2	1/2	1	3/029	3	5	50	V.I.R.	" " " "
STEERING GEAR	1	3	1	7/029	13	15	180	V.I.R.	" " " "
REFRIGE COMPRESSOR	1	1 1/4	1	3/036	6	10	60	V.I.R.	" " " "
REFRIGE PUMP	1	1	1	3/036	5	10	70	V.I.R.	" " " "

NOTE.—Use Rpt. 13 Continuation Sheet if the above space is insufficient.

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.

for THE BURNTISLAND SHIPBUILDING CO., LTD

Electrical Contractors. Date 4-9-53

M. J. Douthwaite

ASSISTANT MANAGING DIRECTOR

COMPASSES.

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

For THE BURNTISLAND SHIPBUILDING CO., LTD

M. J. Douthwaite

Builder's Signature. Date 4-9-53

ASSISTANT MANAGING DIRECTOR

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... YES If not, state date of approval... ✓

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

General Remarks. (State quality of workmanship and materials, opinions as to class, etc.)... This installation has been efficiently fitted onboard in accordance with the Rules and approved plans. The materials and workmanship have been found good. On completion, the installation was found satisfactory under full working conditions.

Noted end 5/10/53

Total Capacity of Generators... 130... Kilowatts.

The amount of Fee ... £ 61 : 10 :
 Gls. A/c £ 30:15:0
 LTH. A/c £ 30:15:0

When applied for, 11/9/53
 When received, 19

Travelling Expenses (if any) £ ✓ : : 19

P. C. Hay
 Surveyor to Lloyd's Register of Shipping.

Committee's Minute... GLASGOW 22 SEP 1953

Assigned... SEE ACCOMPANYING MACHINERY REPORT

*SKM
 14/9/53*

K. J. D. 2.10.53

2m. 8.50.—Transfer. (MADE AND PRINTED IN ENGLAND.)
 (The Surveyors are requested not to write on or below the space for Committee's Minute.)



© 2020

Lloyd's Register Foundation