

REPORT ON ELECTRICAL EQUIPMENT.

(OTHER THAN FOR THE PROPULSION OF THE VESSEL)

Received at London Office

18 MAR 1950

Date of writing Report 21ST FEBRUARY 1950. When handed in at Local Office 13 MAR 1950 19. Port of NEWCASTLE ON TYNE

No. in Survey held at WILLINGTON QUAY - ON-TYNE Date, First Survey 6 1 50 Last Survey 20 2 50 19

Reg. Book. 40761 on the M.V. "SLANEY". (No. of Visits 6)

Built at WALLSEND By whom built CLELANDS (SUCCESSORS) LTD. Yard No. 147 Tons { Gross 994.35 Net 538.02

Owners H.J. WILSON. Port belonging to LONDON. When built 1949/50

Installation fitted by NORTHERN ELECTRICAL REWINDS LTD. When fitted 1950

Is vessel equipped for carrying Petroleum in bulk No Is vessel equipped with D.F. - E.S.D. - Gy.C. - Sub. Sig. -

Plans, have they been submitted and approved YES System of Distribution Two WIRE Voltage of Lighting 110

Heating - Power 220 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 IN 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. 25KWS GENERATORS - TRIPLE POLE CIRCUIT BREAKER WITH TWO OVERLOAD AND ONE REVERSE CURRENT TRIPS. 10KWS GENERATOR - DOUBLE POLE SWITCH AND FUSES.

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

Are compartments containing switchboards composed of fire-resisting material or lined as per Rule YES Instruments on main switchboard 5

ammeters 4 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 "ARTIC", 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 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 -

state maximum fall of pressure between bus bars and any point under maximum load < 6 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 - 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 MAIN CABLES - V.I.R. IN CONDUIT.

ACCOMMODATION CABLES LEAD COVERED CLIPPED TO WOOD GROUNDS.

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 - where unarmoured cables pass through beams, etc., are the holes effectively bushed YES Refrigerated chambers, are the cables and fittings as per Rule -

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



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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 — 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 95 Amp. Hours

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 —

and where are the controlling switches fitted — Are all fittings suitably ventilated Yes

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

Heating and Cooking, is the general construction as per Rule —, are the frames effectually earthed —, 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 — 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

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 —, 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 the cables lead covered as per Rule —

E.S.D., if fitted state maker — location of transmitter — and receiver —

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

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.	
MAIN ...	2	CAMPBELL FISHERWOOD LTD.	25	220	113.7	1100	DIESEL
	1	MANDELEY LTD.	10	220	45.5	1000	
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 ...	25	1	19-083	113.7	118	36	V.I.R.	IN CONDUIT.
" " EQUALISER ...		1	19-083	57	118	18	V.I.R.	IN CONDUIT.
" " ...	10	1	19-082	45.5	64	48	V.I.R.	IN CONDUIT.
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.	MAXIMUM CURRENT IN AMPERES.		APPROX. LENGTH (lead plus return feet).	INSULATION.	PROTECTIVE COVERING.
				In the Circuit.	Rule.			
Aft Accommodation Lighting.	SECT. BOARD	1	7-044	18	31	40	V.I.R.	IN CONDUIT.
MIDSHIP ACCOMMODATION Ltg.	SECT. BOARD	1	7-044	16	31	180	V.I.R.	IN CONDUIT.

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	7-044	10	31	180	V.I.R.	IN CONDUIT.
Aft Accommodation Lighting	1	7-029	11	15	20	V.I.R.	IN CONDUIT.
" " " " " "	1	7-029	7	15	10	V.I.R.	IN CONDUIT.
MIDSHIP ACCOMMODATION LIGHTING.	1	7-029	9	15	30	V.I.R.	IN CONDUIT.
NAVIGATION LIGHTS.	1	7-036	7	24	96	V.I.R.	IN CONDUIT.
GALLEY D.B.	1	7-044	27	31	20	V.I.R.	IN CONDUIT.

? Salt water

MOTOR CABLES.

ALL IMPORTANT MOTORS TO BE ENUMERATED.				No.	B.H.P.								
FRESH WATER CIRCULATING PUMP MOTOR	1	3.	1	7-029.	13✓	15	40	V.I.R.	IN CONDUIT.				
CAPSTAN MOTOR	1	14	1	19-052.	56✓	64	140	V.I.R.	IN CONDUIT.				
STEERING GEAR MOTOR	1	3	1	7-029.	13✓	15	120	V.I.R.	IN CONDUIT.				
COMPRESSOR MOTOR	1	9	1	7-064.	36✓	46	40	V.I.R.	IN CONDUIT.				
BALLAST PUMP MOTORS	2	8	1	7-044.	30✓	31	40	V.I.R.	IN CONDUIT.				
WINCH MOTORS.	2	21	1	19-064	80✓	92	300	V.I.R.	IN CONDUIT 1/2 Hr. RATED				
WINDLASS MOTOR.	1	18	1	19-064	65✓	92	340	V.I.R.	IN CONDUIT 1/2 Hr. RATED				



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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.

NORTHERN ELECTRICAL REWINDS LTD.,
108 HOWARD STREET,
NORTH SHIELDS;

Tharston

Electrical Contractors.

Date 23/2/1950

COMPASSES.

Have the compasses been adjusted under working conditions.
FOR AND ON BEHALF OF
CLELANDS (SUCCESSORS) LIMITED.

yes

Builder's Signature.

Date

28/2/50

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, whether insulation tests, etc., have been made, opinions as to class, etc.)

THE ELECTRICAL EQUIPMENT OF THIS SHIP HAS BEEN INSTALLED UNDER SURVEY, AND IS IN ACCORDANCE
WITH THE REQUIREMENT OF THE RULES AND APPROVED PLANS

THE MATERIALS USED ARE OF GOOD QUALITY AND THE WORKMANSHIP IS SATISFACTORY.

ON COMPLETION OF INSTALLATION, GENERATORS TESTED FOR GOVERNING, COMPOUNDING AND LOAD SHARING.

CIRCUIT BREAKERS TESTED FOR OVERLOADS AND REVERSE CURRENT TRIPS. ALL CIRCUITS TESTED FOR INSULATION RESISTANCE.

ALL FOUND SATISFACTORY.

Noted SW 29/3/50

Total Capacity of Generators *60* Kilowatts.

The amount of Fee ...

... £ *49* : 0 - 0

When applied for,

17 MAR 1950

19

When received,

19

Travelling Expenses (if any) £

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:

Committee's Minute.

Assigned

See F.F. mch. rpt.

R. Stork

Surveyor to Lloyd's Register of Shipping.