

REPORT ON ELECTRIC FITTINGS.

(OTHER THAN FOR THE PROPULSION OF THE VESSEL)

2 MAY 1930

Received at London Office

Date of writing Report 27th April 1930. When handed in at Local Office 1st May 1930. Port of LeithNo. in Survey held at Burntisland. Date, First Survey 4th March Last Survey 23rd April 1930.
Reg. Book. (Number of Visits 7)40223 on the 7/5 " Eskdalegate." Tons { Gross 4250.
Net 2634.

Built at Burntisland By whom built Burntisland S. B. Co. Yard No. 160 When built 1930.

Owners Turnbull Scott Shipping Co. Ltd. Port belonging to London.

Electric Light Installation fitted by Burntisland S. B. Co. Ltd. Contract No. ✓ When fitted 1930.

System of Distribution

2 wire.

Pressure of supply for Lighting 110 volts, Heating / / volts, Power / / volts.

Direct or Alternating Current, Lighting Direct. Power / /

If alternating current system, state frequency of periods per second / /

Has the Automatic Governor been tested and found efficient when the whole load is suddenly thrown on or off Yes.

Generators, do they comply with the requirements regarding rating Yes, are they compound wound Yes.

are they over compounded 5 per cent. Yes, if not compound wound state distance between each generator

Where more than one generator is fitted are they arranged to run in parallel /, is an adjustable regulating resistance fitted in series with each shunt field /

Are all terminals accessible, clearly marked, and furnished with sockets Yes, are they so spaced or shielded that they cannot be accidentally earthed, short circuited, or touched Yes

Position of Generators Engine Room in Stbd. Recess. Are the lubricating arrangements of the generators as per Rule Yes.

is the ventilation in way of the generators satisfactory Yes, are they clear of all inflammable material Yes.

if situated near unprotected woodwork or other combustible material, state distance of same horizontally from or vertically above the generators / and /, are the generators protected from mechanical injury and damage from water, steam or oil Yes.

are their axes of rotation fore and aft Yes.

Earthing, are the bedplates and frames of the generating plant efficiently earthed Bolted direct to earth are the prime movers and their respective generators in metallic contact Yes.

Main Switch Boards, where placed Engine Room in Stbd Recess.

If the generators and main switchboard are not placed in the same compartment, is each generator provided with a fuse on each insulated pole as near as possible to the terminals of the generator, additional to that provided on the main switchboard

Switchboards, are they placed in accessible positions, free from inflammable gases and acid fumes Yes.

are they protected from mechanical injury and damage from water, steam or oil Yes, if situated near unprotected woodwork or other combustible material, state distance of same horizontally from or vertically above the switchboards and /

are they constructed wholly of durable, non-ignitable non-absorbent materials Yes, is all insulation of high dielectric strength and of permanently high insulation resistance Yes.

with mica or micanite or other non-hygroscopic insulating material, and the slab similarly insulated from its framework Yes, and is the frame effectively earthed Bolted direct to earth.

Yes, accessibility of all parts Yes, absence of fuses on back of board Yes, proportion of omnibus bars Yes.

Yes, individual fuses to voltmeter, pilot or earth lamp Yes, connections of switches Yes.

Main Switchgear, description of switchgear for each generator and each outgoing circuit, and arrangement of equalizer switches D.P. Main Switch and fuses and S.P. switches and S.P. fuses for outgoing circuits.

Instruments on main switchboard one ammeters one voltmeters / synchronising device for paralleling purposes.

Earth Testing, state what means are provided at the main switchboard for indicating the state of the insulation of the system earth lamps

Switches, Circuit Breakers and Fusible Cut-outs, do these comply with the requirements of the Rules Yes

Joint Boxes Section and Distribution Boards, is the construction, protection, insulation, material, and position of these as per rule Yes.



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Cables: Single, twin, ~~centric~~, or ~~multi-core~~ are the cables, insulated and protected as per Tables IV or V of the Rules. *Yes.*

Fall of Pressure, state maximum between bus bars and any point of the installation under maximum load. *3 volts.*

Cable Sockets and other connections, are the ends of all cables having a sectional area of 0.04 square inch and above provided with soldering sockets. *Yes.*

Paper Insulated Cables. If cables are paper covered, is the dielectric at the exposed ends of the conductor protected from moisture by being suitably sealed with insulating compound. *Yes.*

Cable Runs, are the cables fixed as far as possible in accessible positions not exposed to drip or accumulation of water or oil, or to high temperature from boilers, steam pipes, uptakes or other hot objects, or to avoidable risk of mechanical damage. *Yes.*

Support and Protection of Cables, state how the cables are supported and protected. *Supported with clip screwed to deck and Bulkheads and protected with lead and wire armour and lead where necessary.*

If cables are run in wood casings, are the casings and caps secured by screws */*, are the cap screws of brass */*, are the cables run in separate grooves */*. If armoured and lead covered cables are secured by metal clips, are the clips spaced as per Table VIII. *Yes.*

Refrigerated Chambers, if lights are fitted, are the cables and fittings in accordance with the special requirements. */*

Joints in Cables, state if any, and how made, insulated, and protected. *none*

Watertight Glands and Deck Tubes, are all cables passing through decks and watertight bulkheads provided with deck tubes or watertight glands. *Yes.*

Bushes in Beams and Non-watertight Partitions, where unarmoured cables pass through beams and non-watertight partitions, are the holes efficiently bushed. *Yes.* state the material of which the bushes are made. *lead*

Earthing Connections, state what earthing connections are fitted and their respective sectional areas. *Dynamo bedplate and switchboard frame bolted direct to earth.*

are their connections made as per Rule

Alternative Lighting, are the groups of lights in the propelling machinery space arranged as per Rule. *Yes.*

Emergency Supply, state position and method of control of the emergency supply and how the generator is driven. */*

Navigation Lamps, are these separately wired. *Yes.* controlled by separate switch and separate fuses. *Yes.* are the fuses double pole. *Yes.* are the switches and fuses grouped in a position accessible only to the officers on watch. *Yes.*

has each navigation lamp an automatic indicator as per Rule. *Yes.*

Secondary Batteries, are they constructed and fitted as per Rule. */*

Fittings, are all fittings on weather decks, in stokeholds and engine rooms and wherever exposed to drip or condensed moisture, watertight. *Yes.* are any fittings placed in spaces in which goods are liable to be stacked in close proximity to them; if so, how are they protected. */*

are any fittings placed in spaces where inflammable or explosive dust or gases are liable to be present, if so, how are they protected. *none.*

how are the cables led. */*

where are the controlling switches situated. */*

Searchlight Lamps, No. of */*, whether fixed or portable. *None at present.* are their fittings as per Rule. */*

Are Lamps, other than searchlight lamps, No. of */*, are their live parts insulated from the frame or case. */* are their fittings as per Rule. */*

Motors, are their working parts readily accessible. */* are the coils self-contained and readily removable for replacement. */*

are the brushes, brush holders, terminals and lubricating arrangements as per Rule. */* are the motors placed in well-ventilated compartments in which inflammable gases cannot accumulate and clear of all inflammable material. */*

are they protected from mechanical injury and damage from water, steam or oil. */* are their axes of rotation fore and aft. */*

if situated near unprotected woodwork or other combustible material, are the motors of the totally enclosed, pipe ventilated, forced draught, drip or flame proof type. */* if of this type, state distance of the combustible material horizontally or vertically above the motors. */* and */*

Control Gear and Resistances, are the generator field and motor speed regulators, starters and controllers constructed and fitted as per Rule. */*

Lightning Conductors, where lightning conductors are required, are these fitted as per Rule. */*

Ships carrying Oil having a Flash Point less than 150° F. Have the special requirements of the Rules been complied with regarding switches, joint boxes, section and distribution boards, protection of cables, method of distribution, lead of cables, lights and fittings. */*

If portable lamps for use in dangerous spaces are supplied, are they of a type approved by the Home Office. */*

PARTICULARS OF GENERATING PLANT.

DESCRIPTION OF GENERATOR.	No. of	RATED AT				DRIVEN BY	WHERE DRIVEN BY AN INTERNAL COMBUSTION ENGINE.	
		Kilowatts.	Volts.	Ampères.	Revs. per Min.		Fuel Used.	Flash Point of Fuel.
MAIN ...	One 27427	7	150	65	400	Steam Engine	/	/
AUXILIARY ...								
EMERGENCY ...								
ROTARY TRANSFORMER								

LIGHTING AND HEATING CONDUCTORS.

Ref. No.	DESCRIPTION.	No. of Conductors.	Effective Area of each Conductor Sq. Ins.	COMPOSITION OF STRAND.		Total Maximum Current Ampères.	Approximate Length (Lead and Return) Feet.	Insulated with	HOW PROTECTED.
				No.	Diameter.				
	MAIN GENERATOR...	2	.060	19	.064	58	8	Rubber.	L.C. + wire armoured.
	EQUALISER CONNECTIONS								
	AUXILIARY GENERATOR								
	EMERGENCY GENERATOR								
	ROTARY TRANSFORMER...								
	AUXILIARY SWITCHBOARDS								
	ENGINE ROOM ...	2	.0070	7	.036	14	8	Rubber	L.C. + wire armoured.
	BOILER ROOM ...								
	ACCOMMODATION Saloon...	2	.0070	7	.036	12	280	"	wire armoured.
	Navigation	2	.0045	7	.029	4	300	"	"
	Accommodation Eng'rs.	2	.0070	7	.036	12	100	"	"
	Wireless	2	.0070	7	.036	10	250	"	"
	Crews Accommodation	2	.0045	7	.029	6	330	"	"
	SEARCHLIGHT								
	MASTHEAD LIGHT...	2	.0020	3	.029	.36	240	Rubber	Wire armoured
	SIDE LIGHTS...	2	.0020	3	.029	.36	80	"	Lead Covered
	COMPASS LIGHTS...	2	.0020	3	.029	.18	40	"	"
	POOP LIGHTS								
	CARGO LIGHTS								
	ARC LAMPS								
	HEATERS								

MOTOR CONDUCTORS.

Ref. No.	DESCRIPTION.	No. of Motors.	Effective Area of each Conductor Sq. Ins.	COMPOSITION OF STRAND.		Total Maximum Current Ampères.	Approximate Length (Lead and Return) Feet.	Insulated with	HOW PROTECTED.
				No.	Diameter.				
	BALLAST PUMP ...								
	MAIN BILGE LINE PUMPS ...								
	GENERAL SERVICE PUMP ...								
	EMERGENCY BILGE PUMP ...								
	SANITARY PUMP ...								
	CIRC. SEA WATER PUMPS ...								
	CIRC. FRESH WATER PUMPS								
	AIR COMPRESSOR ...								
	FRESH WATER PUMP ...								
	ENGINE TURNING GEAR								
	ENGINE REVERSING GEAR ...								
	LUBRICATING OIL PUMPS ...								
	OIL FUEL TRANSFER PUMP								
	WINDLASS ...								
	WINCHES, FORWARD ...								
	WINCHES, AFT ...								
	STEERING GEAR								
	(a) MOTOR GENERATOR...								
	(b) MAIN MOTOR ...								
	WORKSHOP MOTOR ...								
	VENTILATING FANS ...								



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All Conductors are of annealed copper conforming to British Standard Specification No. 7.

The Insulated Conductors are guaranteed to withstand the immersion and resistance tests specified in the Rules.

The foregoing is a correct description.

FOR THE BURNTISLAND SHIPBUILDING COMPANY LTD.

Electrical Engineers.

Date 28/4/30

MANAGING DIRECTOR.

COMPASSES.

Distance between electric generators or motors and standard compass

106'-0"

Distance between electric generators or motors and steering compass

109'-0"

The nearest cables to the compasses are as follows:—

A cable carrying 18 Ampères 7" from standard compass 7" from steering compass.

A cable carrying Ampères feet from standard compass feet from steering compass.

A cable carrying Ampères feet from standard compass feet from steering compass.

Have the compasses been adjusted with and without the electric installation at work at full power.

Yes.

Has the effect of switching on and off circuits, motors and other electro-magnetic apparatus within the vicinity of the compasses been noted

Yes.

The maximum deviation due to electric currents was found to be Nil degrees on any course in the case of the standard

compass, and Nil degrees on any course in the case of the steering compass.

FOR THE BURNTISLAND SHIPBUILDING COMPANY LTD.

Builder's Signature.

Date 28/4/30

MANAGING DIRECTOR.

Is this installation a duplicate of a previous case

yes.

If so, state name of vessel

S/S "Skeldergate"

General Remarks (State quality of workmanship, opinions as to class, &c.)

This Installation has been efficiently fitted on board in accordance with the Rules.

The Materials & Workmanship are sound & good, & the installation was found satisfactory under full load & working conditions.

It is submitted that this vessel is fit for service.

Elec Light

28/4/30

J.

Total Capacity of Generators

7. Kilowatts.

The amount of Fee ... £ 4 : 0 : 0

When applied for,

1/5/1930

Travelling Expenses (if any) £ :

When received,

2/5/30

John Houston
Surveyor to Lloyd's Register of Shipping

Committee's Minute

TUE. 6 MAY 1930

Assigned

Elec Lt.



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