

REPORT ON ELECTRIC FITTINGS.

(OTHER THAN FOR THE PROPULSION OF THE VESSEL)

28 NOV 1928

Received at London Office

Date of writing Report 19 When handed in at Local Office 27/11/28 Port of Newcastle.

No. in Survey held at Newcastle. Date, First Survey 10 Oct Last Survey 13 Nov 1928
Reg. Book, Supp. (Number of Visits 5)

89568. on the S.S. Breole Bueno

Tons { Gross
Net

Built at Newcastle. By whom built Palmers & Co. Ltd. Yard No. 988 When built 1928

Owners Port belonging to

Electric Light Installation fitted by Palmers & Co. Ltd. Contract No. 988. When fitted 1928

System of Distribution Double wire

Pressure of supply for Lighting 110 volts, Heating —, Power —, rolls.

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 Yes

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

Are the lubricating arrangements of the generators as per Rule Yes

Position of Generators Engine room aft end.

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 Yes, are the prime movers and their respective generators in metallic contact Yes

Main Switch Boards, where placed Engine room after end.

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

if semi-insulating material is used, are all conducting parts insulated from the slab with mica or micaite or other non-hygroscopic insulating material, and the slab similarly insulated from its framework Yes

and is the frame effectively earthed Yes. Are the fittings as per Rule regarding:— spacing or shielding of live parts Yes

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

switch & double pole fuses on dynamo main on each outgoing circuit.

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

Coupled to earth through switches & fuses.

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.

RETAIN

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	1	12	110	109	360	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	.1009	19	.083	109	75	V. I. R.	Leadcore, arm braided
	EQUALISER CONNECTIONS								
	AUXILIARY GENERATOR								
	EMERGENCY GENERATOR								
	ROTARY TRANSFORMER								
	AUXILIARY SWITCHBOARDS								
	ENGINE ROOM	2	.00455	7	.029	10.3	144	50	Leadcore braided
	BOILER ROOM								
	ACCOMODATION	2	.01462	7	.052	29.3	114	50	50
	to midships	2	.0396	19	.052	21.5	560	50	50
	navigation	2	.00701	7	.036	6.0	570	50	50
	WIRELESS	2	.01462	7	.052	13.5	325	50	50
	SEARCHLIGHT	2	.00194	3	.029	5.0	82	50	50
	MASTHEAD LIGHT	2	.00194	3	.029	.54	350	50	50
	SIDE LIGHTS	2	.00194	3	.029	.54	114	50	50
	COMPASS LIGHTS	2	.00194	3	.029	.28	56	50	50
	STERN LIGHTS	2	.00299	3	.036	.54	612	50	50
	CARGO LIGHTS	2	.003	70	.0076	3.0	80	50	Spirally arm of lead
	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								

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.

W. H. Bomsey.

Electrical Engineers.

Date 26/11/28

Palmer S. & J. Co. Ltd

COMPASSES.

Distance between electric generators or motors and standard compass 150 feet.

Distance between electric generators or motors and steering compass 135 feet.

The nearest cables to the compasses are as follows:—

A cable carrying .28 Ampères on the ~~feet from~~ standard compass 8 feet from steering compass.

A cable carrying .28 Ampères 8 feet from standard compass on the ~~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 all course in the case of the standard compass, and nil degrees on all course in the case of the steering compass.

Palmer S. & J. Co. Ltd

Ab Jenkins

Shipyard Manager.

Builder's Signature.

Date _____

Is this installation a duplicate of a previous case Yes. If so, state name of vessel Breole Linds

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

The above installation is in accordance with the Society's Rules. The vessel is eligible in my opinion for notation elec light wireless

It is submitted that this vessel is eligible for THE RECORD. Elec Light.

(Signature)
28/11/28

Total Capacity of Generators 12 Kilowatts.

The amount of Fee ... £ 12 : - : 23.11.28 When applied for.

Travelling Expenses (if any) £ : : 30.11.28 When received.

W. T. Badger

Surveyor to Lloyd's Register of Shipping.

Committee's Minute

TUE. 18 DEC 1928

Assigned

Elec Light

Im. 228—Transfer. (The Surveyors are requested not to write on or below the space for Committee's Minutes.)