

Rpt. 13.

No. 18952

REPORT ON ELECTRIC FITTINGS.

(OTHER THAN FOR THE PROPULSION OF THE VESSEL)

Received at London Office

Date of writing Report 24.8.28 When handed in at Local Office 30.8.28.10 Port of GLASGOW Greenock

5 SEP 1928

No. in Survey held at GREENOCK Date, First Survey 31.1.28 East Survey 29.8.1928

Reg. Book.

66346 on the

M.V. BRUNSWICK

Built at GREENOCK By whom built SCOTTS S. & E. CO. Yard No. 534 When built 1928

Owners ATLANTIC REFINING CO. Port belonging to PANAMA.

Electric Light Installation fitted by SCOTTS S. & E. CO. Contract No. 534 When fitted 1928

System of Distribution

TWO WIRE POWER THREE WIRE LIGHTING

Pressure of supply for Lighting 125 volts, Heating ~ volts, Power 250 volts.

Direct or Alternating Current, Lighting DIRECT Power DIRECT

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

Generators, do they comply with the requirements regarding rating YES, are they compound wound MAIN ~ SHUNT AUX ~ COMPOUND.

are they over compounded 5 per cent. if not compound wound state distance between each generator 3 FEET

Where more than one generator is fitted are they arranged to run in parallel NO, 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

BOTTOM PLATFORM MAIN ENGINE ROOM

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

ON SPECIAL FLAT IN MAIN ENGINE ROOM.

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 micanite 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

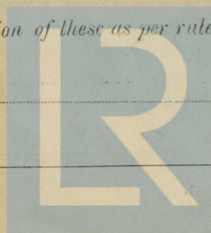
Main Switchgear, description of switchgear for each generator and each outgoing circuit and arrangement of equalizer switches

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

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

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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Foundation

003038-003045-0068

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

MOTOR CONDUCTORS.									
Ref. No.	DESCRIPTION.	No. of Motors.	Effective Area of each Conductor. Sq. Ins.	COMPOSITION OF STRAND.		Total Maximum Current. Amperes.	Approximate Length. (Load and Return.) Feet.	Insulated with	HOW PROTECTED.
				No.	Diameter.				
	BALLAST PUMP	3	0225	7	064"	28. ✓	60	CAMBRIQ	L.C. - A.
	MAIN BILGE LINE PUMPS ...								
	GENERAL SERVICE PUMP								
	EMERGENCY BILGE PUMP ...								
	SANITARY PUMP	1	007	7	036"	11.2 ✓	60	"	"
	CIRC. SEA WATER PUMPS ...	2	04	19	052"	52.5 ✓	75	"	"
	CIRC. FRESH WATER PUMPS	1	003	3	036"	7.6 ✓	50	"	"
	AIR COMPRESSOR	2	04	19	052"	51.8 ✓	60	"	"
	FRESH WATER PUMP								
	ENGINE TURNING GEAR								
	ENGINE REVERSING GEAR ...								
	LUBRICATING OIL PUMPS ...								
	OIL FUEL TRANSFER PUMP	2	003	3	036"	7.8 ✓	90	CAMBRIQ	L.C. - A
	WINDLASS	1	12	37	064"	22 ✓	90	"	"
	WINCHES, FORWARD	1	0225	7	064"	34.2 ✓	100	"	"
	WINCHES, AFT	1	0145	7	052"	34.2 ✓	120	"	"
	STEERING GEAR								
	(a) MOTOR GENERATOR ...	1	04	19	052"	15. ✓	140	CAMBRIQ	"
	(b) MAIN MOTOR	1	01	7	044"	19. ✓	50	"	"
	WORKSHOP MOTOR	1	04	19	052"	45. ✓	40	"	"
	VENTILATING FANS	1	04	19	052"	45. ✓	40	"	"
	CARGO PUMPS	3	3	37	103"	265. ✓	180	"	"
	FIRE "	1	15	19	072"	101.5 ✓	150	"	"
	BOILER FEED PUMP	1	003	3	036"	4.5 ✓	90	"	"
	CENTRIFUGES	2	003	3	036"	12.5 ✓	30	"	"
	ICE MACHINE	1	01	7	044"	20. ✓	70	"	"
	OIL BURNER FAN	1	003	3	036"	5.9 ✓	20	"	"
	CAPSTAN	1	12	37	064"	173. ✓	200	"	"
	GYRO M/G	1	0045	7	029"	6. ✓	15	"	"
	GYRO MOTOR	1	007	7	036"	1.6 ✓	180	"	"

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.

Althow

ELECTRICAL MANAGER.

Electrical Engineers.

Date

28/8/28

COMPASSES.

Distance between electric generators or motors and standard compass

70 FEET

Distance between electric generators or motors and steering compass

70

The nearest cables to the compasses are as follows:—

A cable carrying .08 Amperes IN feet from standard compass feet from steering compass.

A cable carrying .8 Amperes 7 feet from standard compass feet from steering compass.

A cable carrying .5 Amperes 7 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.

SCOTT'S SHIPBUILDING & ENGINEERING COMPANY, LIMITED.

Althow

Builder's Signature.

Date

Is this installation a duplicate of a previous case

no.

If so, state name of vessel

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

This installation has been lifted on board under special survey. Tested under full load conditions and found satisfactory. The materials and workmanship were found to be good and sound.

Total Capacity of Generators

Kilowatts.

The amount of Fee ... £ 127.5.0

When applied for,

Travelling Expenses (if any) £ 2.2.0

When received,

Committee's Minute

GLASGOW 4 - SEP 1928

Assigned

Elec. Light

W.M.

J. S. Ransom

Surveyor to Lloyd's Register of Shipping.