

REPORT ON ELECTRIC FITTINGS.

(OTHER THAN FOR THE PROPULSION OF THE VESSEL)

Date of writing Report 11th October 1927 When handed in at Local Office 24th October '27 Port of Barrow in. Furness

Received at London Office 25 OCT 1927

No. in Survey held at Barrow. Date, First Survey 25 November 1926 Last Survey 6th April 1927
Reg. Book. (Number of Visits 11)

29421 on the Single screw motorship "Modavia"

Tons { Gross 4558

Net 2859

Built at Barrow. By whom built Bickers Ltd. Yard No. 626 When built

Owners Donaldson Line Ltd. Port belonging to Glasgow

Electric Light Installation fitted by Bickers Ltd. Contract No. 626 When fitted 1924

System of Distribution Two wire looping in direct current.

Pressure of supply for Lighting 110 volts, **Heating** ✓ **Power** 110 volts.

Direct or Alternating Current, Lighting Direct current. **Power** Direct current.

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

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 and clearly marked Yes, are they so spaced or shielded that they cannot be accidentally earthed, or short circuited Yes

Position of Generators On Platform at Aft end of Engine room. 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 axis 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 Adjacent to Generators

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, incombustible non-absorbent materials Enamelled Slate, is all insulation of high dielectric strength and of permanently high insulation resistance ✓, if semi-insulating material is used, are all conducting parts connected to one pole insulated from the slab with mica or micanite and the slab similarly insulated from its framework All live parts insulated from Slab, and is the frame effectively earthed Yes

Are the following fittings as per Rule, viz.:— 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 In each generator a fuse on each pole and a DP linked switch. In each outgoing circuit, a fuse on each pole and a DP change over switch on one pole. All change over switches being on the same pole.

Instruments on main switchboard two ammeters two 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 Two earth lamps, Two fuses and two tumbler switches fitted on Switchboard for each generator

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

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



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

MOTOR CONDUCTORS.									
Ref. No.	DESCRIPTION.	No. of Motors.	Effective Area of each Conductor. Sq. Ins.	COMPOSITION OF STRAND.		Total Maximum Current. Amperes.	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	One	.045	19	.042	49/118 ✓	110.	V.L.R.	lead
	ENGINE REVERSING GEAR ...								
	LUBRICATING OIL PUMPS ...								
	OIL FUEL TRANSFER PUMP								
	WINDLASS								
	WINCHES, FORWARD								
	WINCHES, AFT								
	STEERING GEAR								
	WORKSHOP MOTOR								
	VENTILATING FANS	Two	.0225	7	.064	40.0 ✓	320 Yrd 150 ft.	V.L.R.	lead
	Oil Separator Motors	Two	.0042	7	.029	14.8 ✓	35' outboard 28 outboard	"	lead
	Hold Vent Fans	Two	.002	3	.029	1.275 ✓	50 to 190	"	N.B.T.A.

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.

J. Seymour & Co. Vickers Electrical Engineers.

Date 12/12/27

COMPASSES.

Distance between electric generators or motors and standard compass Generators are approximately 80 ft. Compass 20 ft. from 1st Generator

Distance between electric generators or motors and steering compass " " " 85 ft. " 26 ft. " " "

The nearest cables to the compasses are as follows:—

A cable carrying 9.4 Ampères 4 feet from standard compass 6 feet from steering compass.

A cable carrying 18 Ampères 18 feet from standard compass 26 feet from steering compass.

A cable carrying 0.8 Ampères 3 feet from standard compass 3 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.

For VICKERS Limited.

J. Seymour
DIRECTOR.

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 electric light and power installation)

has been efficiently fitted on board and proved satisfactory under working conditions. In my opinion the vessel is eligible to have the notation of Electric light made in the Register Book

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

Acc. Light.

J. H.

25/10/27.

Total Capacity of Generators 32 1/2 Kilowatts

The amount of Fee ... £ 23 : 2-6 : When applied for, 28 April 1927.

Travelling Expenses (if any) £ : When received, 2nd May 1927.

W. C. Coates
Surveyor to Lloyd's Register of Shipping.

Committee's Minute

Assigned

Electric light



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