

Rpt. 13.

No. 9862

REPORT ON ELECTRIC FITTINGS.

(OTHER THAN FOR THE PROPULSION OF THE VESSEL)

Received at London Office 11 DEC 1929

Date of writing Report 2.12.1929 When handed in at Local Office 7.12.1929 Port of GLASGOW.

No. in Survey held at
Reg. Book.

GREENOCK.

Date, First Survey 28.5.29 Last Survey 13.11.1929

(Number of Visits 11)

39246. on the

M.V. ATHEL SULTAN.

Tons {
Gross
Net

Built at PORT GLASGOW

By whom built

W^M HAMILTON & CO.

Yard No. 408

When built 1929.

Owners

THE UNITED MOLASSES CO. LTD

Port belonging to

LIVERPOOL.

Electric Light Installation fitted by

MESSRS W^M MOIR, GOODFELLOW & CO

Contract No. 408

When fitted 1929.

System of Distribution

TWO-WIRE

Pressure of supply for Lighting

110

volts, Heating

volts, Power

110

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

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

YES

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

MAIN ENGINE ROOM AT THRUST RECESS.

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

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

ATHWARTSHIPS, AFT OF GENERATORS

If the generators and main switchboard are not placed in the same compartment, is each generator provided with

YES

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

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 800 AMPS PER DIM, 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

ON EACH

GENERATOR CIRCUIT, DOUBLE POLE CIRCUIT BREAKER. ON EACH OUTGOING CIRCUIT, DOUBLE POLE CHANGE

OVER SWITCH & TWO SINGLE POLE FUSES

Instruments on main switchboard

2

ammeters

2

voltmeters

synchronising device for paralleling purposes.

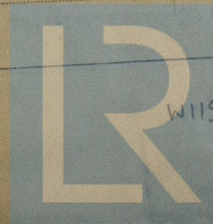
Earth Testing, state what means are provided at the main switchboard for indicating the state of the insulation of the system

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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W1154-0035 1/2

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

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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 W. Muir Goodfellow & Coy Ltd

Wm Goodfellow
director

Electrical Engineers.

Date 4/12/29

COMPASSES.

Distance between electric generators or motors and standard compass 200 ft.

Distance between electric generators or motors and steering compass 200 ft.

The nearest cables to the compasses are as follows:—

A cable carrying 6 Amperes 10 feet from standard compass 6 feet from steering compass.

A cable carrying 1/2 Ampere 1 feet from standard compass 1 feet from steering compass.

A cable carrying Amperes 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.

WILLIAM HARRISON & CO. (1928) Limited

Builder's Signature

Date 5/12/29

Is this installation a duplicate of a previous case *Yes*

If so, state name of vessel

Atthelduke

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

This installation has

*been fitted on board under special survey.
Tested under full working conditions and
found satisfactory.
The materials and workmanship were
found to be good and sound.*

It is recommended that
this vessel be classified for
THE RECORD ELEC Light.

(25)

11/12/29

Total Capacity of Generators 50 Kilowatts.

The amount of Fee ... £ 37. 10. 0. When applied for, @ 4/6

Travelling Expenses (if any) £ 10. 6. When received, 16/11/29

Committee's Minute GLASGOW

10 DEC 1929

Assigned Electric Light.

J. S. Rankin
Surveyor to Lloyd's Register of Shipping.



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