

REPORT ON ELECTRIC FITTINGS.

(OTHER THAN FOR THE PROPULSION OF THE VESSEL)

WED MAY 30 1923

Date of writing Report 21/4/23 19 23 When handed in at Local Office 28-5-1923 Port of GlasgowNo. in Survey held at Grangemouth Date, First Survey 31.8.1921 Last Survey 12.4.1923
Reg. Book. 5206 (Number of Visits 4)Built at Grangemouth By whom built Grangemouth Dock Co. Yard No. 409 When built 1923
Tons { Gross 1943
Net 1194Owners The Dunholm Shipping Co. Port belonging to GreanockElectric Light Installation fitted by Messrs W. C. Martin & Co Contract No. 643 When fitted 1923
Glasgow

System of Distribution

Two WirePressure 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 yesGenerators, do they comply with the requirements regarding overload yes, are they compound wound yesare 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 yesAre all terminals accessible and clearly marked yes, are they so spaced or shielded that they cannot be accidentally earthed, or short circuited yesAre the lubricating arrangements of the generators as per Rule yesPosition of Generators On the starting platform in Engine Roomis the ventilation in way of the generators satisfactory yes, are they clear of all inflammable material yesif 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 yesare their axes of rotation fore and aft yesEarthing, are the bedplates and frames of the generating plant efficiently earthed yes are the prime movers and their respective generators in metallic contact yesMain Switch Boards, where placed near generatorIf 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, in same compartmentSwitchboards, are they placed in accessible positions, free from inflammable gases and acid fumes yesare they protected from mechanical injury and damage from water, steam or oil yes, if situated near unprotectedwoodwork or other combustible material, state distance of same horizontally from or vertically above the switchboards 4ft and 4ftare they constructed wholly of durable, incombustible non-absorbent materials yes, is all insulation of high dielectric strength and ofpermanently high insulation resistance yes, if semi-insulating material is used, are all conducting parts connected to one poleinsulated from the slab with mica or micanite and the slab similarly insulated from its framework yes, and is theframe effectively earthed yes Are the following fittings as per Rule, viz. :— spacing or shielding of live partsyes, accessibility of all parts yes, absence of fuses on back of board yes, proportion of omnibusbars 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 fuse for generator and double pole fuse & single pole switchfor each circuitInstruments 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

Two earth lamps & switches providedSwitches, Circuit Breakers and Fusible Cut-outs, do these comply with the requirements of the Rules yesSection and Distribution Boards, is the construction, protection, insulation, material, and position of these as per rule yes

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012460 - 012472 - 0015 1/2

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. C. Martin & Co.

Electrical Engineers.

Date *30th April 1923*

COMPASSES.

Distance between electric generators or motors and standard compass *60 ft from generator*

Distance between electric generators or motors and steering compass *56 ft from generator*

The nearest cables to the compasses are as follows:—

A cable carrying *.28* Ampères *6* feet from standard compass *1* feet from steering compass.

A cable carrying *.28* Ampères *1* feet from standard compass *6* 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 *a certain* course in the case of the standard compass, and *Nil* degrees on *the same* course in the case of the steering compass.

FOR THE GRANGEMOUTH DOCKYARD CO., LTD.

Aspen Hill

Builder's Signature.

Date *May 5th 1923*

Is this installation a duplicate of a previous case *Yes*. If so, state name of vessel *S.S. Willow Park.*

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 & found satisfactory. The generator engine had to be overhauled & bearings re-bushed after which it was found to be in good running condition. The workmanship was found to be good and sound.

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

RA. 1-6-23

Total Capacity of Generators *9* Kilowatts

The amount of Fee ... £ *9 0.0* : { When applied for, *1/57 1923*

Travelling Expenses (if any) : £ *17/6* : { When received, *57/57 1923*

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

GLASGOW *29 MAY 1923*

Committee's Minute

Assigned *Elec. Light.*

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