

REPORT ON ELECTRICAL EQUIPMENT.

(OTHER THAN FOR THE PROPULSION OF THE VESSEL)

9 NOV 1939

Received at London Office

Date of writing Report 21st Oct 39 When handed in at Local Office 6. 11. 39 Port of GLASGOW.

No. in Survey held at GLASGOW & GREENOCK.

Date, First Survey 22. 6. 39 Last Survey 31st October 1939.

Reg. Book.

(Number of Visits 16)

38759. on the M.V. "DONACILLA"

Tons { Gross 8113
Net 4755

Built at GLASGOW.

By whom built Blythwood S.B. & Co. Ltd.

Yard No. 57

When built 1939

Owners Anglo Saxon Petroleum Co. Ltd.

Port belonging to

LONDON.

Electric Light Installation fitted by Sunderland Forge & Eng^g. Co. Ltd.

Contract No. 57

When fitted 1939.

Is the Vessel fitted for carrying Petroleum in bulk

Yes.

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 temperature rise

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

No.

is an adjustable regulating resistance fitted in

series with each shunt field

Yes.

Have certificates of test results for machines under 100 kw. been submitted and

approved

Yes.

Have machines over 100 kw. been inspected by the Surveyors during manufacture and testing

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

In 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

Main Switch Boards, where placed

Near 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.

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.

is it of an approved type

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

Interlocks

type

Yes.

and is the frame effectively earthed

Yes.

Are the fittings as per Rule regarding:— spacing or shielding of live parts

omnibus bars

Yes.

accessibility of all parts

Yes.

absence of fuses on back of board

Yes.

temperature rise of

"off" position

No.

individual fuses to voltmeter, pilot or earth lamp

Yes.

are moving parts of switches alive in the

switches

No.

are all screws and nuts securing connections effectively locked

Yes.

are any fuses fitted on the live side of

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

Each generator controlled by D.P. Switch & fuses, each outgoing circuit controlled by D.P. Sw. & fuses.

Are turbine driven generators fitted with emergency trip switch as per rule

Are cupboards or compartments containing switchboards composed of

fire-resisting material or lined with approved material

Yes.

Instruments on main switchboard

2

ammeters

2

voltage

synchronising device for paralleling purposes. For compound machines is the ammeter connected on the opposite pole to equaliser connection

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

Earth Lamps

Switches, Circuit Breakers and Fusible Cut-outs

do these comply with the requirements of the Rules

Yes.

are the fusible cutouts of an approved type

Yes.

have the reversed

All Conductors are of annealed copper conforming to British Standard Specification No. 7 (or International Electro-technical Commission Publication No. 28).

The Insulated Conductors are guaranteed to withstand the immersion and resistance tests specified in the Rules.

The foregoing is a correct description.

P.Pro.

THE SUNDERLAND FORGE & ENGINEERING CO. LTD.

Electrical Engineers.

Date 24th October 1939.

J. C. Shanks

COMPASSES.

Distance between electric ~~generators~~ or motors and standard compass

35 feet.

Distance between electric ~~generators~~ or motors and steering compass

32 feet.

The nearest cables to the compasses are as follows:—

A cable carrying 0.2 Amperes led into feet from standard compass led into feet from steering compass.

A cable carrying 60 Amperes 12 feet from standard compass 8 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.

CLYTONWOOD SHIPBUILDING CO. LTD.

John W. Stewart

Builder's Signature.

Date

Is this installation a duplicate of a previous case Yes. If so, state name of vessel M.V. "DARINA"

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

The electrical equipment of this vessel has been fitted on board under special survey, tested under full working conditions and found satisfactory. The materials and workmanship are good.

Noted

Rau

10.11.39

Est

6/11/39

Total Capacity of Generators 40 Kilowatts.

The amount of Fee ... £ 25 : - : When applied for, 7 - NOV 1939

Travelling Expenses (if any) £ : : When received, 9/11/39

S. C. P. Mialan R. L. Hurchison.
Surveyor to Lloyd's Register of Shipping.

Committee's Minute

GLASGOW 7 - NOV 1939

Assigned

SEE ACCOMPANYING MACHINERY REPORT.



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Foundation