

# REPORT ON ELECTRICAL EQUIPMENT.

(OTHER THAN FOR THE PROPULSION OF THE VESSEL)

JUL - 6 1938

Received at London Office

Date of writing Report 6 June 1938 When handed in at Local Office 4: 7: 38 Port of Glasgow  
 No. in Survey held at Glasgow Date, First Survey 27<sup>th</sup> Apr 1938 Last Survey 28<sup>th</sup> June 1938  
 Reg. Book. 39958 on the T.S.S. "RAFAELA" Number of Visits 12  
 Built at Glasgow By whom built Blythwood S.B.C. & Co. Yard No. 50 When built 1938  
 Owners Curacao'sche Scheepvaart Maatschappij N.V. Port belonging to Willemstad  
 Electric Light Installation fitted by Clark Chapman & Co Ltd Contract No. 50 When fitted 1938  
 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 yesGenerators, do they comply with the requirements regarding temperature rise yesare 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 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 yesAre 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 yesare 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 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 generator

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 yesinjury and damage from water, steam or oil yes

horizontally from or vertically above the switchboards and are they constructed wholly of durable, non-ignitable non-absorbent

materials yesyesis it of an approved type yesnon-hygroscopic insulating material, and the slab similarly insulated from its framework SINDANYOtype yesaccessibility of all parts yesomnibus bars yes"off" position noswitches no

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

Generator and each outgoing circuit controlled by D.P. switch and 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

Instruments on main switchboard

one

ammeters

one

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 yesare 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.

For Clarke, Chapman & Co., Ltd.

W. Taylor Director

Electrical Engineers.

Date 13<sup>th</sup> June 1938

#### COMPASSES.

Distance between electric generators or motors and standard compass 178 feet

Distance between electric generators or motors and steering compass 175 feet

The nearest cables to the compasses are as follows:—

A cable carrying 2 Ampères led into feet from standard compass led into feet from steering compass.

A cable carrying 9.5 Ampères 10 feet from standard compass 8 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 any course in the case of the standard compass, and nil degrees on any course in the case of the steering compass.

BLYNESWOOD SHIPBUILDING CO. LTD.

John W. Stewart

Surveyor

Builder's Signature.

Date 30<sup>th</sup> June 1938

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

Noted

7/7/38.

Rob  
4.4.38

Total Capacity of Generators 10 Kilowatts.

The amount of Fee ... £ 10 : — : When applied for, 4 JUL 1938

Travelling Expenses (if any) £ — : — : When received, 9/7/38

Committee's Minute

GLASGOW 5 JUL 1938

Assigned

SEE ACCOMPANYING MACHINERY REPORT.

R. I. Hutchinson & Co. Surveyors to Lloyd's Register of Shipping.



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