

# REPORT ON ELECTRIC FITTINGS.

(OTHER THAN FOR THE PROPULSION OF THE VESSEL)

23 JUN 1931

Date of writing Report 11<sup>th</sup> June 1931 When handed in at Local Office

Port of HAMBURG

No. in Survey held at KIEL

Date, First Survey 16<sup>th</sup> Febr. Last Survey 21<sup>st</sup> May 1931

Reg. Book.

(Number of Visits 15)

on the STEEL TWIN S.C. TANKER FJORDAAS

Tons { Gross 7361  
Net 4360

Built at KIEL

By whom built DEUTSCHE WERKE KIEL A.G. Yard No. 227 When built 1931

Owners AGDESIDENS REDERI A/S

Port belonging to ARENDAL

Electric Light Installation fitted by DEUTSCHE WERKE KIEL A.G. Contract No. When fitted 1931

## System of Distribution

Two Wire System

## Pressure of supply for Lighting

110 volts, Heating

volts, Power

## 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

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

in the 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

yes

## Main Switch Boards, where placed

in the engine room aft part

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, non-ignitable non-absorbent materials

marble

, 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-hygrosopic 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

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

For each

generator a double pole linked switch and a fuse on each pole; for each outgoing circuit a double pole change over switch and a fuse on each pole.

Instruments on main switchboard

3

ammeters

3

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

1 Voltmeter with

Thun scale

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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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.

The Builders are the Electrical Engineers.

Date

#### COMPASSES.

Distance between electric generators or motors and standard compass

about 8 m

Distance between electric generators or motors and steering compass

The nearest cables to the compasses are as follows:—

A cable carrying 0.3 Ampères close to feet from standard compass close to feet from steering compass.

A cable carrying 0.3 Ampères close to feet from standard compass close to 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 course in the case of the standard

compass, and nil degrees on course in the case of the steering compass.

Deutsche Werke Kiel  
Aktien-Gesellschaft

Mr. Frunz

Builder's Signature.

Date 10. 4. 1931

Is this installation a duplicate of a previous case. yes If so, state name of vessel m/s VARDAS, yard No 226

General Remarks (State quality of workmanship, opinions as to class, etc. Workmanship & Material of)

This electric Installation are of good quality. All the conductors are of the German Standards. The Loc. Rules regarding conductors have been applied generally. The installation has been fitted in accordance with the approved plans, the Secretary's letters and otherwise in conformity with the requirements of the Rules under Special Survey, and is eligible for my opinion for record of: "ELECTRIC LIGHT"

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

cm.  
25/6/31.

Total Capacity of Generators 30 Kilowatts.

The amount of Fee ... £ 22 : 10 : 4. 6. 1931

Travelling Expenses (if any) £ : : 6. 7. 1931

P. Carrington  
Surveyor to Lloyd's Register of Shipping.

Committee's Minute TUE. 30 JUN 1931

Assigned Elec. Light