

# REPORT ON ELECTRIC FITTINGS.

(OTHER THAN FOR THE PROPULSION OF THE VESSEL)

29 OCT 1931

Date of writing Report *8th Oct. 1931*. When handed in at Local Office *24th Oct. 1931* Port of *Danzig*.No. in Survey held at *Danzig* Date, First Survey *19th August 1931* Last Survey *30th Sept. 1931*  
Reg. Book. *40007* on the *Reel No. "Dalvanger"* (Number of Visits *6*)Built at *Danzig* By whom built *The Int. E. B. & C. Co. Ltd* Yard No. *65* Tons { Gross *2412*  
Net *1392*  
When built *1931*Owners *Skissakies Karabien* Port belonging to *Oslo*Electric Light Installation fitted by *Allg. Elektricitäts Ges, Danzig* Contract No. When fitted *1931*System of Distribution *Two wire conductors.*Pressure of supply for Lighting *110 -* volts, Heating *-* volts, Power *110 -* volts.Direct or Alternating Current, Lighting *Direct current.* Power *Direct current.*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 *-*, 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 *Engine room stb side, working platform.*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 *Engine room 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 *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 *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 miculate 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 omnibusbars *yes, 30x5 mm*, 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 *Generator: A**double pole linked switch and a fuse on each pole. Each outgoing circuit:**A double pole linked or change over switch and a fuse on each pole.*Instruments on main switchboard *1* ammeters *1* 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 *2 lamps.*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*



The German Standards

It reads

yes.

insulating compound. *none*

steam pipes, uptakes or other hot objects, or to avoidable risk of mechanical damage. *yes.*

carriers and secured by clips, where necessary protected by sheet iron casings or pipes.  
If cables are run in open air:

separate grooves no. If armoured and lead covered cables are secured by metal clips, are the clips spaced as per Table VIII yes

...cables and fittings in accordance with the special requirements *yes*

Water tight joints boxes

yes.

brushed yes state the material of which the bushes are made lead

**Earthing Connections,** state what earthing connections are fitted and their respective sectional areas.

Alternative Lighting, are the groups of lights in the prope'ing machinery space arranged as per Rule Yes

Emergency supply, state, position and method of control of the emergency supply and how the generator is driven

the switches and fuses grouped in a position accessible only to the officers on watch yes, in wheel house.

on each navigation lamp: an automatic indicator as per Rule yes.

**Secondary Batteries,** are they constructed and filled as per Rule —

*Are any fillings placed in spaces in which goods are liable to be stacked in close proximity to them; if so, how are they protected.* —

any packages placed in spaces where inflammable or explosive dust or gases are liable to be present, if so, how are they protected.

here are the controlling switches situated —

....., whether fixed or portable fixed....., are their fittings as per Rule yes

Lamps, other than self-enclosed lamps, No. of \_\_\_\_\_, are their live parts insulated from the frame or case \_\_\_\_\_, are their fittings as per Rule \_\_\_\_\_

the brushes, brush holders, terminals and fabricating arrangements as per Rule yes, are the motors placed in well-ventilated compartments in which inflammable gases cannot accumulate and clear of all inflammable material yes.

located near unprotected woodwork or other combustible material, are the motors of the totally enclosed, pipe ventilated, forced draught, dip or flame proof type \_\_\_\_\_, if not of this type, state distance of the combustible material horizontally or vertically above the motors \_\_\_\_\_ and \_\_\_\_\_

generator field and motor speed regulators, starters and controllers constructed and fitted as per Rule Yes.

3. Conductors, where lightning conductors are required, are these fitted as per Rule. *Yes.*

*ion and distribution boards, protection of cables, method of distribution, lead of cables, lights and fittings.* —

...camps for use in dangerous spaces are supplied, are they of a type approved by the Home Office. —

PARTICULARS OF GENERATING PLANT

## LIGHTING AND HEATING CONDUCTORS

## MOTOR CONDUCTORS.



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.

AEG Elektrizitäts-A.G.

Electrical Engineers.

Date 27. X. 1931

#### COMPASSES.

Distance between electric generators or motors and standard compass About 80'

Distance between electric generators or motors and steering compass 80'

The nearest cables to the compasses are as follows:—

A cable carrying 1 Ampères 5 feet from standard compass 5 feet from steering compass.

A cable carrying 20 Ampères 6 feet from standard compass 9 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 all course in the case of the standard compass, and nil degrees on all course in the case of the steering compass.

THE INTERNATIONAL  
SHIPBUILDING AND ENGINEERING CO. LTD.  
(Danziger Werft und Eisenbahnwerkstätten A.G.)

Builder's Signature.

Date 27. X. 1931

Is this installation a duplicate of a previous case yes If so, state name of vessel Auswangen

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

Material and workmanship of this installation are of good quality. As the conductors used are of the German Standards the Society's Rules regarding conductors have been applied generally. The installation is otherwise fitted in accordance with the formerly approved plan and the requirements of the Rules.

It was tested under full load with satisfactory results and is eligible in our opinion for the notation of "Electric light".

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

Elec. Light

BA 20/10/31

The fee of £12.0.0 to be credited to Stettin.

Total Capacity of Generators 12 Kilowatts.

The amount of Fee ... £ 12 : 0 : 22. 10. 19. 31

Travelling Expenses (if any) £ : : 14. 11. 19. 31

Surveyor to Lloyd's Register of Shipping.

Committee's Minute

Assigned

Elec. Lt.



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Lloyd's Register  
Foundation