

# REPORT ON ELECTRIC FITTINGS.

(OTHER THAN FOR THE PROPULSION OF THE VESSEL)

No. 15761

2 - NOV 1926

Date of writing Report *27 Oct 1926* When handed in at Local Office *10* Port of *Rotterdam*  
 No. in Survey held at *Rotterdam* Date, First Survey *27 July* Last Survey *20 Oct* 19*26*  
 Reg. Book. *on the s.s. Kian Guan*  
 Built at *Rotterdam / Schiedam* By whom built *Kilton's Shipbuilding Works* Yard No. *22* Tons { Gross *1926*  
 Owners *Pai Fong Ham Sugar* Port belonging to *Singapore*  
 Electric Light Installation fitted by *N. J. van Rietschoten & Hoonius* Contract No. *E.T.H.* When fitted *1926*

System of Distribution *Two wire system*  
 Pressure of supply for Lighting *110* volts, Heating *—* volts, Power *—* volts.  
 Direct or Alternating Current, Lighting *Direct Current* Power *—*

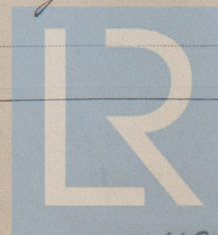
If alternating current system, state frequency of periods per second

Has the Automatic Governor been tested and found efficient when the whole load is suddenly thrown on or off *yes*Generators, do they comply with the requirements regarding overload *yes*, are they compound wound *yes*are they over compounded 5 per cent. *yes*, if not compound wound state distance between each generatorWhere 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 *—*Are all terminals accessible and clearly marked *yes*, are they so spaced or shielded that they cannot be accidentally earthed, or short circuited *yes* Are the lubricating arrangements of the generators as per Rule *yes*Position of Generators *in engine room near dynamo switchboard*, 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 axis 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 engine room near dynamo*  
 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, incombustible 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 connected to one poleinsulated from the slab with mica or micanite and the slab similarly insulated from its framework *—*, and is the frame effectively earthed *yes* Are the following fittings as per Rule, viz.:— spacing or shielding of live parts*yes*, 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 *for the generator**a double pole quick linked knife switch and double pole fuse, for each outgoing circuit a double pole quick linked knife switch and double pole fuse.*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

*two earth lamps.*Switches, Circuit Breakers and Fusible Cut-outs, do these comply with the requirements of the Rules *yes*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.

N. V. Van Rietschoten & Houwens'  
Electrotechnische Maatschappij.

Electrical Engineers.

Date 20<sup>th</sup> October 1926.

#### COMPASSES.

Distance between electric generators or motors and standard compass

103 feet

Distance between electric generators or motors and steering compass

97 feet.

The nearest cables to the compasses are as follows:—

A cable carrying 5 Amperes 42 feet from standard compass 53 feet from steering compass.

A cable carrying 1/3 Amperes 12 feet from standard compass 20 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

Has the effect of switching on and off circuits, motors and other electro-magnetic apparatus within the vicinity of the compasses been noted

The maximum deviation due to electric currents was found to be degrees on course in the case of the standard compass, and degrees on course in the case of the steering compass.

Wilton's Engineering & Slipway Co.

J. D. Helton

Builder's Signature.

Date

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, &c.)

This installation has been fitted in accordance with the rules, workmanship and material good the whole was found in a good working condition when tried and merits in my opinion the Committee's approval

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

Total Capacity of Generators 7 1/2 Kilowatts

The amount of Fee ...

£ 99.00

When applied for, 11.11.26

Travelling Expenses (if any) £

When received, 8.11.26

Surveyor to Lloyd's Register of Shipping.

TUES. 9 NOV 1926

Committee's Minute

Assigned

Elec. Light

110/24.—Transfer.  
(The Surveyors are requested not to write on or below the space for Committee's Minute.)



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