

# REPORT ON ELECTRIC FITTINGS.

(OTHER THAN FOR THE PROPULSION OF THE VESSEL)

19 AUG 1936

Received at London Office

Date of writing Report 14-8-1936 When handed in at Local Office

19

Port of Rotterdam

No. in Survey held at *Slidrecht* Date, First Survey *30-7-36* Last Survey *11-8-1936*  
Reg. Book. (Number of Visits... 2...)on the *Non propelling bucket Dredger.*Tons { Gross  
NetBuilt at *Slidrecht.* By whom built *Wey de Klop.* Yard No. *520.* When built *1936.*Owners *James Dredging, Towing, Transport Co.* Port belonging to *Southampton.*Electric Light Installation fitted by *N.V. Elect. Techn. Bureau S. Bakker* Contract No. When fitted *1936.*

## System of Distribution

*double wire.*

Pressure of supply for Lighting

*110.*

volts, Heating

volts, Power

volts.

Direct or Alternating Current, Lighting

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

Generators, do they comply with the requirements regarding overload, are they compound wound

are they over compounded 5 per cent., 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

Are all terminals accessible and clearly marked, are they so spaced or shielded that they cannot be accidentally earthed, or short circuited Are the lubricating arrangements of the generators as per Rule

## Position of Generators

is the ventilation in way of the generators satisfactory, are they clear of all inflammable material

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

are their axis of rotation fore and aft

Earthing, are the bedplates and frames of the generating plant efficiently earthed, are the prime movers and their respective generators in metallic contact

Main Switch Boards, where placed *in engine room.*

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 *no* andare 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 omnibus bars, 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

*Double pole quickshut off switch.*Instruments on main switchboard *one* ammeters *one* 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 *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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Lloyd's Register  
Foundation

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**Cable Sockets and other connections,** are the ends of all cables having a sectional area of 0.007 square inch and above provided with soldering sockets.

**Paper Insulated Cables.** *If cables are paper covered, is the dielectric at the exposed ends of the conductor protected from moisture by being suitably sealed with insulating compound* ✓

**Cable Runs,** are the cables fixed as far as possible in accessible positions not exposed to drip or accumulation of water or oil, or to high temperature from boilers, steam pipes, uptakes or other hot objects, or to avoidable risk of mechanical damage. *Yes. ✓*

**Support and Protection of Cables,** *state how the cables are supported and protected* *by galvanised iron clips*

If cables are run in wood casings, are the casings and caps secured by screws ..... , are the cap screws of brass ..... , are the cables run in separate grooves ..... . If armoured and lead covered cables are secured by metal clips, are the clips spaced as per Table VI .....

**Refrigerated Chambers,** *if lights are fitted, are the cables and fittings in accordance with the special requirements*

**Joints in Cables,** state if any, and how made, insulated, and protected. *none*

**Watertight Glands and Deck Tubes,** are all cables passing through decks and watertight bulkheads provided with deck tubes or watertight glands

Bushes in Beams and Non-watertight Positions, where unarmoured cables pass through beams and non-watertight partitions, are the holes efficiently bushed yes state the material of which the bushes are made brass. ✓

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

**Alternative Lighting**, are the groups of lights in the propelling 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* ✓

Navigation Lamps, are these separately wired ☒ , controlled by separate switch and separate fuses ☒

Searchlight Lamps, No. of ☒ , whether fixed or portable ☒ , are their fittings as per Rule ☒

**Arc Lamps,** other than searchlight lamps, No. of ✓ are their live parts insulated from the frame or case are their fittings as per Rule ✓

**Control Gear and Resistances,** are the generator field and motor speed regulators, starters and controllers constructed as per Rule

**Lightning Conductors,** where lightning conductors are required, are these fitted as per Rule ✓

**Ships carrying Oil having a Flash Point less than 150° F.** Have the special requirements of the Rules been complied with regarding switches, joint boxes,

## PARTICULARS OF GENERATING PLANT

DESCRIPTION OF GENERATOR.	No. of	RATED AT				DRIVEN BY.	WHERE DRIVEN BY AN INTERNAL COMBUSTION ENGINE.	
		Kilowatts.	Volts.	Ampères.	Revs. per Min.		Fuel Used.	Flash Point of Fuel.
MAIN ...								
AUXILIARY ...								
EMERGENCY ...								
ROTARY TRANSFORMER								

LIGHTING AND HEATING CONDUCTORS.

[illegible]

## MOTOR CONDUCTORS.

[illegible]



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.

*[Signature]*

Electrical Engineers.

Date

#### COMPASSES.

Distance between electric generators or motors and standard compass *none*

Distance between electric generators or motors and steering compass *none*

The nearest cables to the compasses are as follows:—

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

A cable carrying Ampères feet from standard compass 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

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.

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 now*)

*as far as fitted been made in accordance with the approved plan and will be completed and tested at Aberdeen.*

*Noted*

*Ym*

*4.11.36*

Total Capacity of Generators Kilowatts

The amount of Fee ... *£25.00* When applied for, *18.8.1936*  
Travelling Expenses (if any) *£4.25.00* When received, *4.9.1936*

*[Signature]*  
Surveyor to Lloyd's Register of Shipping.

FRI 22 OCT 1937

Committee's Minute

Assigned *Su Abu 18731*