

Rpt. 13.

No. 18431

REPORT ON ELECTRICAL EQUIPMENT.

(OTHER THAN FOR THE PROPULSION OF THE VESSEL)

30 OCT 1936

Received at London Office

Date of writing Report

19

When handed in at Local Office

19

Port of AberdeenNo. in Survey held at Aberdeen
Reg. Book.Date, First Survey 18-8-36 Last Survey 26th October 1936(Number of Visits 1)on the Non propelling bucket dredgerBuilt at SliedrechtBy whom built Wierf de KlopYard No. 570Tons ^{Gross}
_{Net}When built 1836Owners James Dredging Co.

Port belonging to

Electric Light Installation fitted by

Contract No.

When fitted

Is the Vessel fitted for carrying Petroleum in bulk NoSee also Rotterdam Rpt No 24752.System of Distribution Two WiresPressure of supply for Lighting 110

volts, Heating

volts, Power

volts.

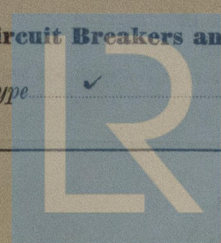
Direct or Alternating Current, Lighting Direct

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 YesGenerators, do they comply with the requirements regarding temperature rise Yes, are they compound wound Yesare 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 Yes, is an adjustable regulating resistance fitted inseries with each shunt field Yes Have certificates of test results for machines under 100 kw. been submitted andapproved Yes Have machines over 100 kw. been inspected by the Surveyors during manufacture and testingAre 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 YesPosition of Generators Forward end of Engine Room on starting platform level, is the ventilationin way of the generators satisfactory Yes are they clear of all inflammable material Yes if situated near unprotectedwoodwork or other combustible material, state distance of same horizontally from or vertically above the generators Yes and Yesare the generators protected from mechanical injury and damage from water, steam or oil Yes, are their axes of rotation fore and aft NoEarthing, are the bedplates and frames of the generating plant efficiently earthed Yes are the prime movers and their respective generatorsin metallic contact Yes Main Switch Boards, where placed Engine room Forward bulkheadIf 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 YesSwitchboards, are they placed in accessible positions, free from inflammable gases and acid fumes Yes, are they protected from mechanicalinjury and damage from water, steam or oil Yes, if situated near unprotected woodwork or other combustible material, state distance of samehorizontally from or vertically above the switchboards Yes and Yes, are they constructed wholly of durable, non-ignitable non-absorbentmaterials Yes, is all insulation of high dielectric strength and of permanently high insulation resistance Yesis it of an approved type Yes, if semi-insulating material is used, are all conducting parts insulated from the slab with mica or micanite or othernon-hygroscopic insulating material, and the slab similarly insulated from its framework Yes, is the non-hygroscopic insulating material of an approvedtype Yes, and is the frame effectively earthed Yes Are the fittings as per Rule regarding:— spacing or shielding of live partsYes, accessibility of all parts Yes, absence of fuses on back of board Yes, temperature rise ofomnibus bars Yes, individual fuses to voltmeter, pilot or earth lamp Yes, are moving parts of switches alive in the"off" position No are all screws and nuts securing connections effectively locked Yes are any fuses fitted on the live side ofswitches Yes Main Switchgear, description of switchgear for each generator and each outgoing circuit, and arrangement of equalizer switchesAre turbine driven generators fitted with emergency trip switch as per rule Yes Are cupboards or compartments containing switchboards composed offire-resisting material or lined with approved material Yes Instruments on main switchboard One ammeters Onevoltage meters Yes 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 Yes are the fusible cutouts of an approved type Yes have the reversedLloyd's Register
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W425-0219 (1/2) 219 (2)

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.

Electrical Engineers.

Date

COMPASSES.

Distance between electric generators or motors and standard compass

Distance between electric generators or motors and steering compass

The nearest cables to the compasses are as follows:—

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

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

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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. *The electrical generator*)

has been securely fitted on board the vessel, and the installation tried under working conditions and found satisfactory. The materials & workmanship are good. For particulars of electric wiring see Rotterdam Report N° 24752 attached.

Noted

Yun

4.11.36

Total Capacity of Generators *3* Kilowatts.

See Rot RPT N° 24752

The amount of Fee ... £ : :

Travelling Expenses (if any) £ *✓* : :

When applied for.

19

When received.

19

J. D. Avey
Surveyor to Lloyd's Register of Shipping.

Committee's Minute

FRI 22 OCT 1937

Assigned

See other F. C. report



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