

Rpt. 13.

REPORT ON ELECTRICAL EQUIPMENT.

No. 3115

(OTHER THAN FOR THE PROPULSION OF THE VESSEL)

Date of writing Report 22.11. 19 57 When handed in at Local Office 19 Received at London Office 19

No. in Survey held at Bremerhaven Port of Bremen

Reg. Book. 42058 on the Motor Tug "CULEX" Date, First Survey 13.8. Last Survey 18.10. 19 57
(No. of Visits 5)

Built at Bremerhaven By whom built F. Schichau A.G. Yard No. 1674 When built 1957

Owners Gaselee & Son Ltd. Port belonging to London

Installation fitted by F. Schichau A.G., Bremerhaven. When fitted 1957

Is vessel equipped for carrying Petroleum in bulk No Is vessel equipped with D.F. - E.S.D. - Gy.C. No Sub.Sig. No Radar No

Plans, have they been submitted and approved Yes System of Distribution two poles insulated Voltage of Lighting 24

Heating - Power 110 D.C. or A.C., Lighting D.C. Power D.C. If A.C. state frequency -

Prime Movers, has the governing been found as per Rule when full load is thrown on and off Yes Are turbine emergency governors fitted with a trip switch - Generators, are they compound wound Diesel, and level compounded under working conditions Yes

Are the generators arranged to run in parallel No Is the compound winding connected to the negative or positive pole negative

Have machines 100 kw. and over been inspected by the Surveyors during manufacture and testing - Have certificates of test for machines under 100 kw. been supplied and the results found as per Rule Yes Position of Generators Engine Room Diesel Generator:- Stbd. side; Shaft Generator:- Port side aft; Rotary Transformer:- Portside.

is the ventilation in way of generators satisfactory Yes are they clear of inflammable material and protected from mechanical injury and damage from water, steam and oil Yes Switchboards, where are main switchboards placed Engine Room stbd. side adjacent to Diesel generator facing to portside.

are they in accessible positions, free from inflammable gases and acid fumes and protected from mechanical injury and damage from water, steam and oil Yes, what insulation is used for the panels steel panels "Dead Front Type", if of synthetic insulating material is it an Approved Type -, if of semi-insulating material (slate or marble) are all conducting parts insulated therefrom as per Rule - Is the construction as per Rule, including locking of screws and nuts Yes Description of Main Switchgear for each generator and arrangement of equaliser switches Double pole linked change-over switch and fuses

and the switch and fuse gear (or circuit breakers) for each outgoing circuit Double pole switch and fuses

Are compartments containing switchboards composed of fire-resisting material or lined as per Rule Yes Instruments on main switchboard 2/1 ammeters 2/1 voltmeters - synchronising devices - For compound machines in parallel are the ammeters and reverse current protection devices connected on the pole opposite to the equaliser connection - Earth Testing, state means provided Power:- Ohmmeter. Lighting:- Earth Lamps Preference Tripping, state if provided -, and tested -

Switches, Circuit Breakers and Fuses, are they as per Rule Yes, are the fuses an Approved Type Yes make of fuses Siemens, are all fuses labelled Yes If circuit breakers are provided for the generators, at what overload do they operate -, and at what current do the reverse current protective devices operate - Cables, are they insulated and protected as per Rule Yes if otherwise than as per Rule are they of an Approved Type MK, state maximum fall of pressure between bus bars and any point under maximum load 6% Are all paper insulated and varnished cambric insulated cables sealed at the ends -

Are all the cable runs in accessible positions not exposed to drip or accumulation of water or oil, high temperatures or risk of mechanical damage Yes, are any cables laid under machines or floorplates Yes, if so, are they adequately protected Yes State type of cables (if in conduit this should also be stated) in machinery spaces MK in pipe - MK, galleys MK and laundries - State how the cables are supported or protected Clipped to steel trays, structure or wood grounds and protected where necessary

Are all lead sheaths, armouring and conduits effectually bonded and earthed Yes Are all cables passing through decks and watertight bulkheads provided with deck tubes or watertight glands Yes, where unarmoured cables pass through beams, etc., are the holes effectively bushed Yes Refrigerated chambers, are the cables and fittings as per Rule -

Have refrigeration fan motors been constructed under survey - and test certificates supplied -

Are the motors accessible for maintenance at all times -



© 2021

Lloyd's Register Foundation

The Electrical Equipment is installed in accordance with the approved plans and the requirements of the Rules.

All Insulated Conductors are guaranteed to have been tested at the maker's works as specified in the Rules.

The foregoing is a correct description

F. Schuchau A. G.

Bremerhaven

[Signature]

Electrical Contractors.

Date 26. 11. 1957

COMPASSES.

Have the compasses been adjusted under working conditions... Yes

[Signature] Builder's Signature.

Date *[Signature]*

Have the foregoing descriptions and schedules been verified and found correct... Yes

Is this installation a duplicate of a previous case... No If so, state name of vessel --

Plans. Are approved plans forwarded herewith... Yes If not, state date of approval --

Certificates. Are certificates of test for motors engaged on essential sea services and generators forwarded herewith... Yes

General Remarks. (State quality of workmanship and materials, opinions as to class, etc.)

The electrical equipment on this vessel has been installed under Special Survey and the arrangements are in accordance with or equivalent to those shown on the approved plans and the Rules for Electrical Equipment.

The material used is of good quality and the workmanship is good.

On completion the equipment was seen running under working conditions, and the insulation resistance of all circuits measured and found good.

The installation is in my opinion suitable for a classed vessel.

Total Capacity of Generators 17.5 Kilowatts.

The amount of Fee ... £ 21 : 18 :

When applied for,
No rendered from
London. 31.12.58.

When received,

Travelling Expenses (if any) £ 5 : 0 :

19.

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

FRIDAY 7 MAR 1958

Committee's Minute

Assigned

See Rpt. 1.