

22 OCT 1959

No. 116492

Rpt. 13.

REPORT ON ELECTRICAL EQUIPMENT.

(OTHER THAN FOR THE PROPULSION OF THE VESSEL)

Received at London Office

Date of writing Report 19-9-59 When handed in at Local Office 19.10.59 Port of NEWCASTLE-ON-TYNE

No. in Survey held at Smith's Docks, North Shields Date, First Survey 31.7.59 Last Survey 14.9.59
 (No. of Visits 9)

12420 on the Tanker M.V. "PULBOROUGH" ex "GERTRUDE WIENER" Tons 1956

Built at Bremen By whom built Rolandwerft G.m.b.H Yard No. - When built 1956
 Owner Stephenson Clarke Limited Port belonging to London, British

Installation fitted by Siemens Schuckertwerke T.B. Bremen When fitted 1956

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

Plans, have they been submitted and approved Noted System of Distribution D.C. & A.C. 2 wire Voltage of Lighting 110
3 phase 3 wire.

Heating - Power 380 D.C. or A.C., Lighting A.C. & D.C. Power A.C. If A.C. state frequency 50

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 - and level compounded under working conditions -

Are the generators arranged to run in parallel No Is the compound winding connected to the negative or positive pole -
 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 - Position of Generators in engine room, main alternator

sets port and starboard shaft generator aft, rotary converter set above main switchboard.

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 in engine room along forward

bulkhead. 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 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 Triple pole circuit breaker fitted with O/L trips, closing of circuit breaker also operates bus bar splitter switch preventing alternators from operating in parallel

and the switch and fuse gear (or circuit breakers) for each outgoing circuit Triple pole or double pole circuit breakers

fitted with thermal O/Ls

Are compartments containing switchboards composed of fire-resisting material or lined as per Rule - Instruments on main switchboard 6-A.C.
3-D.C.

ammeters 4 A.C. 3 Frequency Meters 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 earth

lamps Preference Tripping, state if provided No, 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 50%, and at what current do the reverse current protective devices operate -

if otherwise than as per Rule are they of an Approved Type -, state maximum fall of pressure between bus bars and any point under maximum load less than 6% volts. 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 V.I.R. Mesh Braided, galleys V.I.R. Mesh Braided

and laundries - State how the cables are supported or protected Clipped to tray, woodwork or metal

work, mains along tank tops in pipe

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 -

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.

Electrical Contractors. Date

COMPASSES.

Have the compasses been adjusted under working conditions.

Builder's Signature. Date

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 (Noted) If not, state date of approval.

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

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

The electrical equipment of this vessel was originally installed under Germanischer Lloyds survey, and so far as can be ascertained has been operating satisfactorily.

The equipment has been surveyed at this time for purpose of classification and the following modifications have been effected :-

- Pump room vent fan of the watertight type fitted in ventilation ducting now removed from ship.
- Access manholes to cofferdam in space now used as ships office on port side welded up, (one access manhole to this cofferdam is situated in pump room).

On completion of repairs, and modifications, the equipment was seen under working conditions during sea trials. Electric windlass, and steering gear tested, shaft driven generator tried, and all found to be in order. The loading on the generators was found to be satisfactory with regard to main cables (See London letter dated 10.9.59.) The gas-freeing equipment is by Messrs. Siemens Schuckerwerke and was placed in good order. Insulation test of all circuits taken and found satisfactory.

The equipment as installed is suitable in my opinion for a ship classed with this Society.

Total Capacity of Generators 130 Kilowatts.

The amount of Fee SEE Rpt 9 : When applied for, 19.

Travelling Expenses (if any) £ : When received, 10.

Surveyor to Lloyd's Register of Shipping.

J.C. WRIGHT.

FRIDAY 4 DEC 1959

Committee's Minute

Assigned

See Rpt 1

501,650 - Transfer. (MADE AND PRINTED IN ENGLAND) (The Surveyors are requested not to write on or below the space for Committee Minutes.)



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