

Rpt. 13.

No. 74651

REPORT ON ELECTRICAL EQUIPMENT.

(OTHER THAN FOR THE PROPULSION OF THE VESSEL)

Date of writing Report 25th October 1949. When handed in at Local Office. 19... Received at London Office 10 NOV 1949
Port of GLASGOW
No. in Survey held at GRANGEMOUTH Date, First Survey 29th April Last Survey 23rd August 1949
Reg. Book. (No. of Visits)

23430 on the S.S. RHINELAND (ex 'SCHWAN'-49) Tons { Gross... Net...
Built at KIEL By whom built HOWALDTSWERKE H.G. Yard No. When built 1938
Owners CURRIE LINE, LTD Port belonging to LEITH

Installation fitted by GRANGEMOUTH DOCKYARD CO. LTD When fitted 1949
Is vessel equipped for carrying Petroleum in bulk No Is vessel equipped with D.F. YES E.S.D. YES Gy.C. Sub.Sig. Radar

Plans, have they been submitted and approved YES System of Distribution TWO WIRE Voltage of Lighting 110
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 YES, and level compounded under working conditions YES, if not compound wound state distance between generators ✓ and from switchboard ✓ Are the generators arranged to run in parallel No, are shunt field regulators provided YES Is the compound winding connected to the negative or positive pole ✓
Have machines over 100 kw. 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 STARBOARD SIDE OF ENGINE ROOM
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 NEAR GENERATORS

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 ADMIRALTY GRADE 'A' BAKELITE, if of synthetic insulating material is it an Approved Type YES, 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 D.P. CHANGEOVER SWITCH WITH FUSES

and the switch and fuse gear (or circuit breakers) for each outgoing circuit S.P. KNIFE PATTERN SWITCHES WITH FUSES

Are compartments containing switchboards composed of fire-resisting material or lined as per Rule Instruments on main switchboard THREE ammeters THREE voltmeters ✓ synchronising devices. For compound machines in parallel are the ammeters and reversed current protection devices connected on the pole opposite to the equaliser connection ✓ Earth Testing, state means provided EARTH LAMPS

Switches, Circuit Breakers and Fuses, are they as per Rule YES, are the fuses an Approved Type YES, make of fuses SIEMENS 'ZED' TYPE, 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 reversed current protective devices operate ✓

Joint Boxes, Section Boards and Distribution Boards, is the construction as per Rule YES

Cables, are they insulated and protected as per Rule CONTINENTAL TYPE, 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 4.3 VOLTS, are the ends of all cables having a sectional area of 0.01 square inch and above provided with soldering sockets YES 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 No, if so, are they adequately protected ✓ Are cables in machinery spaces, galleys, laundries, etc., lead covered YES or run in conduit ✓ or of the "HR" type ✓ State how the cables are supported or protected MAINS - L.C.A.B. CABLE CLIPPED TO STEEL TRAY. MACHINERY SPACE - L.C. OR L.C.A. CABLE CLIPPED TO STEEL WORK OR TRAY. ACCOMMODATION SPACES - L.C. CABLE CLIPPED TO WOODWORK.

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 ✓

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..... ✓ ES.

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

Plans. Are approved plans forwarded herewith..... No If not, state date of approval..... 9TH OCTOBER 1949

Certificates. Are certificates of test for motors engaged on essential sea services and generators forwarded herewith..... No

General Remarks. (State quality of workmanship, whether insulation tests, etc., have been made, opinions as to class, etc.).....

The electrical installation of this vessel, as now seen, is in good order and the quality of materials and workmanship is good. The installation, in my opinion, is such as could be accepted for classification by this Society.

Total Capacity of Generators..... 32½ Kilowatts.

The amount of Fee 2×6 £ 12 : 0 : When applied for,
 ALTERATION FEE..... £ 8 : 8 : 9 NOV 1949

Travelling Expenses (if any) £ : ✓ : 19

M. Gardiner
 Surveyor to Lloyd's Register of Shipping.

Committee's Minute..... 9 NOV 1949

Assigned.....

2m.9.40.—Transfer. (MADE AND PRINTED IN ENGLAND.)
 (The Surveyors are requested not to write on or below the space for Committee's Minute.)



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