

Rpt. 13.

No. 25720

REPORT ON ELECTRICAL EQUIPMENT.

(OTHER THAN FOR THE PROPULSION OF THE VESSEL)

Received at London Office

Date of writing Report 24-9-59 When handed in at Local Office 21.10.59 Port of SOUTHAMPTON
No. in Survey held at COWES I.O.W. Date, First Survey 16-3-59 Last Survey 3-9-59
Reg. Book. (No. of Visits 20)

on the T.S.S. "MERMAID" Tons { Gross 1425
Net 453

Built at COWES By whom built J. SAMUEL WHITE & CO LTD Yard No. 2002 When built 1959

Owners TRINITY HOUSE Port belonging to LONDON

Installation fitted by J. SAMUEL WHITE & CO LTD When fitted 1959

Is vessel equipped for carrying Petroleum in bulk NO Is vessel equipped with D.F. YES E.S.D. YES Gy.C. YES ASDIC YES Radar YES

Plans, have they been submitted and approved YES System of Distribution TWO WIRE Voltage of Lighting 220

Heating 220 Power 220 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 YES, are shunt field regulators provided YES Is the compound winding connected to the negative or positive pole

NEGATIVE Have machines over 100 kw. been inspected by the Surveyors during manufacture and testing YES Have certificates of

test for machines under 100 kw. been supplied YES and the results found as per Rule YES

Position of Generators 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 ENGINE ROOM ON PLATFORM,

AT FORWARD END

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 PAXOLIN & SINDANYO, 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 ENGLISH ELECTRIC TRIPLE POLE D.B.Z. BREAKERS WITH

OVERLOAD, NO VOLT, REVERSE CURRENT & PREFERENCE TRIP FEATURES INCLUDED.

and the switch and fuse gear (or circuit breakers) for each outgoing circuit ENGLISH ELECTRIC DOUBLE POLE KNIFE SWITCHES

ENGLISH ELECTRIC H.R.C. CARTRIDGE FUSES.

Are compartments containing switchboards composed of fire-resisting material or lined as per Rule YES Instruments on main switchboard 5

ammeters 5 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 YES Earth Testing, state means provided TWO

LAMPS & SWITCHES

Switches, Circuit Breakers and Fuses, are they as per Rule YES, are the fuses an Approved Type YES

make of fuses E.E.C. & DENNIS, 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 reversed current protective devices operate 15%

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

Cables, are they insulated and protected as per Rule YES, 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 10 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 YES 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 Are cables in machinery spaces, galleys, laundries, etc., lead covered NO or run in conduit NO

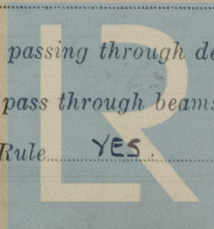
or of the "HR" type YES State how the cables are supported or protected CLIPPED TO GALVANISED CABLE TRAYS

BY MEANS OF BRASS CLIPS.

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 YES



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012779-012785-0233/2

Insulation Tests. has the insulation resistance of all circuits and apparatus been tested and found satisfactory. **YES**

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.

R. L. Cameron

Electrical Contractors.

Date 24-9-59.

FOR J.S. WHITE & CO LTD

COMPASSES.

Have the compasses been adjusted under working conditions.

YES, WITH D/G "ON" & "OFF".

R. L. Cameron

Builder's Signature.

Date 24-9-59

FOR J.S. WHITE & CO LTD

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.

If not, state date of approval.

16-9-58.

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

Yes.

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

The auxiliary electrical equipment of this vessel has been installed under Special Survey in accordance with the Rules, approved plans and the Secretary's letters.

The materials used and quality of workmanship are of good standard. The installation has been examined and tested under working conditions and insulation tests have been carried out with satisfactory results.

The auxiliary electrical equipment of this vessel is eligible, in my opinion, for classification.

Total Capacity of Generators 420 Kilowatts.

Power for excitation 20

* £77.0.0 SOU 4c 4c *
£25.0.0 LON 12 1/2

The amount of Fee ... £102: -

When applied for,

19

When received,

19

Travelling Expenses (if any) £ 3 : 3/10

SOUTHAMPTON A/c
LEEDS A/c
BIRMINGHAM A/c

Committee's Minute

FRIDAY 20 NOV 1959

Assigned

See App. 1.

R. Pemberton

Surveyor to Lloyd's Register of Shipping.



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