

REPORT ON ELECTRICAL EQUIPMENT.

(OTHER THAN FOR THE PROPULSION OF THE VESSEL)

Received at London Office

27 MAR 1951

Date of writing Report 16 May 1951 When handed in at Local Office 24-3-1951 Port of ANTWERP

No. in Survey held at ANTWERP Date, First Survey 26-10-50 Last Survey 14-12-1950
Reg. Book. (No. of Visits) 16on the m/v "KAMINA ex ROYAL HAROLD. Tons { Gross 4424
Net 2874

Built at Hoboken By whom built J. C. Cokerill Yard No. 682 When built 1940

Owners Belgian Navy Port belonging to

Installation fitted by Campbell & Thewald When fitted 1942/43

Is vessel equipped for carrying Petroleum in bulk? Is vessel equipped with D.F. E.S.D. Gy. Sub.Sig. Radar

Plans, have they been submitted and approved? System of Distribution Tension wire Voltage of Lighting 220

Heating 220 Power 220 D.C. or A.C., Lighting DC - AC Power DC If A.C. state frequency 50

Prime Movers, has the governing been found as per Rule when full load is thrown on and off? Are turbine emergency governors fitted with a trip switch? Generators, are they compound wound? And level compounded under working conditions? If not compound wound state distance between generators and from switchboard. Are the generators arranged to run in parallel? Are shunt field regulators provided? 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? Have certificates of test for machines under 100 kw. been supplied? and the results found as per Rule?

Position of Generators Two in main E.R. and three in AUX. E.R. in fore and aft position. Is the ventilation in way of generators satisfactory? Are they clear of inflammable material and protected from mechanical injury and damage from water, steam and oil? Switchboards, where are main switchboards placed? One aft of M.E.R. and one aft of AUX. E.R. Both in the antiseptic position. Are they in accessible positions, free from inflammable gases and acid fumes and protected from mechanical injury and damage from water, steam and oil? What insulation is used for the panels? PIERREITE, 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? Description of Main Switchgear for each generator and arrangement of equaliser switches Two pole Siemens circuit breakers with linked equaliser switch.

and the switch and fuse gear (or circuit breakers) for each outgoing circuit. Double pole circuit breakers in double pole switches with fuses.

Are compartments containing switchboards composed of fire-resisting material or lined as per Rule? Instruments on main switchboards 25 ammeters 12 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

6 Ohm standard

Switches, Circuit Breakers and Fuses, are they as per Rule? Are the fuses an Approved Type? Siemens, make of fuses Normal. If circuit breakers are provided for the generators, at what overload do they operate? 10% fall of load, and at what current do the reversed current protective devices operate? 10% fall of load

Joint Boxes, Section Boards and Distribution Boards, is the construction as per Rule? Cables, are they insulated and protected as per Rule? Existing, 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. 1%, are the ends of all cables having a sectional area of 0.01 square inch and above provided with soldering sockets? 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? Are any cables laid under machines or floorplates? If so, are they adequately protected? Are cables in machinery spaces, galleys, laundries, etc., lead covered? or run in conduit? or of the "HR" type? State how the cables are supported or protected. Clipped to perforated steel trays or to bulkheads.

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

LM
014925-014934-0092

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

Is this installation a duplicate of a previous case If so, state name of vessel

Plans. Are approved plans forwarded herewith 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, whether insulation tests, etc., have been made, opinions as to class, etc.)

The electrical equipment has been examined throughout and reported as found necessary. The size of the principal cables have been checked and found to correspond with the approved plans. Modifications have been carried out as per approved plan except that the generator main cables have not been increased in size, it was recommended that this be done to complete the Classification survey.

Noted C.R. 15.10.51

(The Surveyors are requested not to write on or below the space for Committee's Minutes.)

Total Capacity of Generators 600 ✓ Kilowatts.

The amount of Fee ... £. 10.600 : { When applied for,
24.3.1951
When received, 19

Travelling Expenses (if any) £ :

O. Falkenau
Surveyor to Lloyd's Register of Shipping.

Committee's Minute FRI. 19 OCT 1951

Assigned Sir E.E. Michy, M.P.