

REPORT ON ELECTRICAL EQUIPMENT.

(OTHER THAN FOR THE PROPULSION OF THE VESSEL)

Date of writing Report 3rd June 1949 When handed in at Local Office 19 Received at London Office 13 JUN 1949
 Port of Copenhagen
 Nor in Survey held at Nalborg Date, First Survey 20th January Last Survey 18th May 1949
 Reg. Book. 91565 on the Steel Single Screw Steamer KAMMA DAN (No. of Visits 16)
 Built at Nalborg By whom built Nalborg Værk Tons 3490.63
 Owners Rederiet Ocean (J. Lauritzen) Port belonging to Osloberg Yard No. 76 When built 1949
 Installation fitted by Nalborg Værk When fitted 1949
 Is vessel equipped for carrying Petroleum in bulk No Is vessel equipped with D.F. ye E.S.D. ye Gy.C. ye Sub.Sig. ✓ Radar ✓

Plans, have they been submitted and approved ye System of Distribution Two wire insulated Voltage of Lighting 220
 Heating 220 Power 220 D.C. or A.C., Lighting direct Power direct If A.C. state frequency ✓
 Prime Movers, has the governing been found as per Rule when full load is thrown on and off ye Are turbine emergency governors fitted with a trip switch ✓ Generators, are they compound wound ye, and level compounded under working conditions ye, if not compound wound state distance between generators ✓ and from switchboard ✓ Are the generators arranged to run in parallel ye, are shunt field regulators provided ye 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 ye and the results found as per Rule ye
 Position of Generators In the engine room, 1 off in port, 2 off in starboard side, is the ventilation in way of generators satisfactory ye are they clear of inflammable material and protected from mechanical injury and damage from water, steam and oil ye Switchboards, where are main switchboards placed In the starboard side of the engine room are they in accessible positions, free from inflammable gases and acid fumes and protected from mechanical injury and damage from water, steam and oil ye, what insulation is used for the panels Sindanyo, if of synthetic insulating material is it an Approved Type ye, 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 ye Description of Main Switchgear for each generator and arrangement of equaliser switches a three pole circuit breaker with overload and reverse current trips

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

Are compartments containing switchboards composed of fire-resisting material or lined as per Rule ye Instruments on main switchboard 4 ammeters 3 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 ye Earth Testing, state means provided one set of earth lamps and one voltmeter provided with ohm scale

Switches, Circuit Breakers and Fuses, are they as per Rule ye, are the fuses an Approved Type ye, make of fuses 14mm diam, are all fuses labelled ye If circuit breakers are provided for the generators, at what overload do they operate 200amps - 90amps and at what current do the reversed current protective devices operate 20amps - 9amps

Joint Boxes, Section Boards and Distribution Boards, is the construction as per Rule ye
 Cables, are they insulated and protected as per Rule ye, 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 6. Volts, are the ends of all cables having a sectional area of 0.01 square inch and above provided with soldering sockets ye 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 ye, 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 ye or run in conduit ✓ or of the "HR" type ✓ State how the cables are supported or protected The cables are supported by screwed clips, lead covered and steel wire armoured cables used, where necessary protected by sheet iron

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

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.



AALBORG VÆRFT A/S

Electrical Contractors.

Date 7/6 49

COMPASSES.

Have the compasses been adjusted under working conditions... *yes*

AALBORG VÆRFT A/S

Builder's Signature.

Date 7/6 49

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, whether insulation tests, etc., have been made, opinions as to class, etc.)

The electric installation has been constructed under special survey, in accordance with the Rules, the approved plans and the requirements in the Secretary's letter E dated 1.2.1949.

The material used is conforming with the Rules and the workmanship is good.

On completion the whole installation was megger tested and tested under working conditions as per Rule and found good.

Noted sent 8/7/49

Total Capacity of Generators... *98 ✓* Kilowatts.

The amount of Fee ...

£ 1094

When applied for,

1076 19 *49*

When received,

19

Travelling Expenses (if any) £

Committee's Minute

FRI. 15 JUL 1949

Assigned

In unit see J.E. Rpe.

L. Clausen
Surveyor to Lloyd's Register of Shipping.



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Foundation