

REPORT ON ELECTRICAL EQUIPMENT.

(OTHER THAN FOR THE PROPULSION OF THE VESSEL)

13 MAY 1957

Received at London Office

Date of writing Report 9-4-1957 When handed in at Local Office 9-4-1957 Port of Groningen

No. in Survey held at Offingedam Date, First Survey 26-1-57 Last Survey 3-4-1957
Reg. Book. (No. of Visits 7)92521 on the ship "RANA" Tons { Gross 49.9.47
Net 2.22.53

Built at Offingedam By whom built Schen Offingedam Yard No. 178 When built 1957

Owners M. M. Thoms Port belonging to Groningen

Installation fitted by Messrs Herman G. Pelsch M. When fitted 1957

Is vessel equipped for carrying Petroleum in bulk no Is vessel equipped with D.F. yes E.S.D. yes Gy.C. no Sub.Sig. no Radar no

Plans, have they been submitted and approved yes System of Distribution 2 wire insulated Voltage of Lighting 110

Heating 110 Power 110 D.C. or A.C., Lighting DC Power DC 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, except shaft driven generator and level compounded under working conditions yes

Are the generators arranged to run in parallel no Is the compound winding connected to the negative or positive pole negative

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 yes Position of Generators EA floor level

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 EA above deck

water line

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 dual fast type in board, 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 DP DT switch and DP fuses

and the switch and fuse gear (or circuit breakers) for each outgoing circuit DP switches and fuses

Are compartments containing switchboards composed of fire-resisting material or lined as per Rule yes Instruments on main switchboard 2

ammeters 1 voltmeters — synchronising devices 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

indicating 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 (Kema)

make of fuses Weber & Harsinger, 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 reverse current protective-

devices operate — 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 < 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 no, if so, are they adequately protected — State

type of cables (if in conduit this should also be stated) in machinery spaces H&R type, galleys H&R type

and laundries — State how the cables are supported or protected Mesh space clipped to

perforated plating or surface — Accom spaces: clipped to surface

or wood grounds — Foreship in conduit —

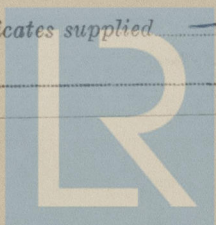
Are all lead sheaths, armouring and conduits effectually bonded and earthed yes Are all cables passing through decks and watertight

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 —



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Battery placed above deepwater line —

a position accessible only to the officers on watch yes, is an automatic indicator fitted yes. Is an alternative supply provided yes.

ampere hours. 190 Ah Where required to do so does it comply with 1948 International Convention.....

Searchlights. No. of 1 whether fixed or portable portable are they of the carbon arc or of the filament type carbon arc

are the frames effectually earthed. yes are heaters in the accommodation of the convection type. — Motors are all motors constructed and installed as per Rule and placed in well ventilated

Are motors coupled to oil fuel transfer and pressure pumps capable of being stopped from a position accessible in the event of fire in the munition

Have certificates of test for motors under 100 BHP intended for essential sea services been supplied and the results found as per Rule. Yes

Ships carrying Oil having a Flash Point of less than 150° F. Have all the special requirements of the Rules for such ships been complied

rooms, 'tween deck spaces, etc., in accordance with the special requirements for such ships..... Are all cables lead covered as per Rule.....

Spare Gear, if the vessel is for open sea service have spares been provided as per Rule and suitably stored in dry situations. *yes*

PARTICULARS OF GENERATING PLANT.		
DESCRIPTION	RATED AT	PRIME MOVER.

RATED AT

GENERATOR CABLES.

CONDUCTORS.	MAY
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MAIN DISTRIBUTION CABLES (to Auxiliary Switchboards, etc.)

No. in Parallel per Pole.	Sectional Area or No. and Dia. of Strands	MAXIMUM CURRENT IN AMPERES.	APPROX. LENGTH (lead plus
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No.	B.B.P
Lapland L	

CABLES.	

NOTE.—Use Rpt. 13 Continuation Sheet if the above space is not sufficient.

If the above space is insufficient.

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.

HERMAN G. BEVELS N.V.

Electrical Contractors.

Date

COMPASSES.

Have the compasses been adjusted under working conditions.

SCHIEP SWERF
APPINGEDAM

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 and materials, opinions as to class, etc.)

The electrical equipment of this vessel has been installed under special survey in accordance with the British Rules, Secretary's Letter and the approved plans or equivalent thereto. The materials used are of a good quality and the design and workmanship are good. On completion the equipment has been tried out under full working conditions and found satisfactory. This equipment is in my opinion suitable for a classed vessel.

Total Capacity of Generators 12 Kilowatts.

The amount of Fee

£ 132 -

When applied for,

9-5-1957

When received,

19

Travelling Expenses (if any)

£ 40 -

Surveyor to Lloyd's Register of Shipping.

Committee's Minute

TUESDAY 25 JUN 1957

Assigned

Su Rpt 1



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