

# REPORT ON ELECTRICAL EQUIPMENT.

(OTHER THAN FOR THE PROPULSION OF THE VESSEL)

Date of writing Report 6/4 19 54 • When handed in at Local Office 8/4 19 54 • Port of M A I M Ö.  
 No. in Survey held at M A I M Ö. Date, First Survey 27/1 Last Survey 31/3 19 54 •  
 Reg. Book. (No. of Visits 23)  
36109s on the Motortanker "H A V I A P I" Tons { Gross 11,079  
 Net 6,408  
 Built at Malmö. By whom built Kockums Mek. Verkst. / Yard No. 366 When built 1954.  
 Owners A/S Havprins Port belonging to Oslo  
 Installation fitted by Kockums Mek. Verkstads A.-B. When fitted 1954.

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

Plans, have they been submitted and approved Yes. System of Distribution 3 phase insulated Voltage of Lighting 115

Heating 380 Power 380 D.C. or A.C., Lighting A.C. Power A.C. If A.C. state frequency 50

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 ---, 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 Yes., are shunt field regulators provided ---. 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 Yes.. Have certificates of test for machines under 100 kw. been supplied Yes.. and the results found as per Rule Yes..

Position of Generators Port and starboard side forward BR. floor and on a platform port side BR.

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 On a platform port side in 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 Yes.., what insulation is used for the panels Dead front switchboard., 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 3 pole circuit breaker with isolating switch o/c and u/v and r/c

and the switch and fuse gear (or circuit breakers) for each outgoing circuit 3 pole knife switches and 3 pole fuses.

Are compartments containing switchboards composed of fire-resisting material or lined as per Rule Yes. Instruments on main switchboard 18

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 ---. Earth Testing, state means provided Ohm-meter.

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

make of fuses ASEA., are all fuses labelled Yes.. If circuit breakers are provided for the generators, at what

overload do they operate at 10% set at 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 < 5 %., 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 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 Yes.. or run in conduit ---

or of the "HR" type ---. State how the cables are supported or protected L.C. and S.T.A. cables clipped to

surface plate or tray in machinery space and on decks and covered with steel channel

plates under floor plates in engine room. Lead covered cables clipped to surface or to

wood grounds in accommodations.

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..







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.

**KOCKUMS**  
MEKANISKA VERKSTÄDE AKTIEBOLAG  
ELEKTRISKA AVDELNINGEN

Electrical Contractors.

Date **7 APR. 1954**

Sigfrid Franzén / *G. Thorsén*

#### COMPASSES.

Have the compasses been adjusted under working conditions. Yes.

**KOCKUMS**  
MEKANISKA VERKSTÄDE AKTIEBOLAG

*P. Stenlund*

Builder's Signature.

Date **7 April 1954**

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. No. If not, state date of approval. Gothenburg 11.3.54.

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 fitted in the vessel under my inspection and has been tested and found satisfactory.

The workmanship is good and the Rule requirements have been complied with.

Lloyd's and Makers' Certificates in respect of generators and motors are attached.

Regarding 380 V. heating elements please see Gothenburg letters 11th and 19th March, 1954.

#### Note:-

Part of the survey was carried out by the undersigned on Wednesday the 31st March, between 19<sup>30</sup> and 21<sup>30</sup>.

*noted 95.  
6/5/54*

Total Capacity of Generators. 740 ☒ KVA Kilowatts

The amount of Fee ...MMO...	£r. 1.840:-	When applied for,
" " " " SKM	Kr. 460:-	8/4 1954.
Special Att. Fee	Kr. 70:-	When received,
Travelling Expenses (if any) SKM	£r. 108:-	19
" " Mmo	Kr. 5:50	
" " Got	Kr. 136:-	

Committee's Minute TUESDAY 11 MAY 1954

Assigned

*See Rpt 40*

*P. Thorsén*  
Surveyor to Lloyd's Register of Shipping.



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Foundation