

Rpt. 13.

No. 113

# REPORT ON ELECTRICAL EQUIPMENT.

(OTHER THAN FOR THE PROPULSION OF THE VESSEL)

Received at London Office.

5 NOV 1949

Date of writing Report 28th Oct. 1949 When handed in at Local Office 19 Port of K I E L

No. in Survey held at K I E L Date, First Survey Last Survey 19  
Reg. Book. (No. of Visits)

11888 on the "HAUKERJELL" Tons { Gross 9823  
Net 5794  
When built 1941

Built at Sunderland By whom built Sir J. Laing & Sons, Ltd. Yard No. Oslo

Owners A/S FALKERJELL Port belonging to

Installation fitted by Howaldtswerke Kiel A.G. When fitted 9:49

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

Plans, have they been submitted and approved yes System of Distribution D.C. Voltage of Lighting 110

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 no 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 starboard

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 forward amidships

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 Pertinax, 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 yes 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

automatic switches and circuit breaker

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

knife switch, type Pacco

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

earth lamps

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

make of fuses Siemens, are all fuses labelled yes If circuit breakers are provided for the generators, at what

overload do they operate 7 - 15%, and at what current do the reversed current protective devices operate 100 A

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

Cables, are they insulated and protected as per Rule see letter of See letter report no 125 A, 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 3%, 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 - 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 part or run in conduit part

or of the "HR" type - State how the cables are supported or protected pipes, clips, and trays

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

Shipping.

002442-002448-0261 1/2

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Foundation



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

PARTICULARS OF GENERATING PLANT.							PRIME MOVER.	
DESCRIPTION OF GENERATOR.	No. of	MAKER.	RATED AT			Revs. per Min.	TYPE.	MAKER.
			Kilowatts per Generator.	Volts.	Ampères.			
MAIN ...	1	SSW	100	230	435	500	Diesel	Bohn & Kähler
	1	AEG	100	230	435	500	Diesel	" " "
	1	AEG	100	230	435	500	Diesel	" " "
	1	made in England	25	110	230		steam	
	1		6	110	55	500	Diesel	Bohn & Kähler
EMERGENCY ...								
ROTARY TRANSFORMER	1							
emergency								

NOTE: MK = lead sheathed and braided  
 MK = plastic sheathed and braided

GENERATOR CABLES.				NOTE:		MCK = plastic sheathed and braided		
DESCRIPTION.	KILOWATTS.	CONDUCTORS.		MAXIMUM CURRENT IN AMPERES.		APPROX. LENGTH (lead plus return feet)	INSULATION.	PROTECTIVE COVERING.
		No. in Parallel per Pole.	Sectional Area or No. and Dia. of Strands. sq. ins. or sq. mm.	In the Circuit.	Rule.			
MAIN GENERATORS ...	100	3	1x190	435	530	21	rubber	MCK
" " EQUALISER ...		1	1x185	200	237	10	"	MCK
acceptable by rule but not in accordance with plans								
EMERGENCY GENERATOR ...	6	1	1x25	60	63	50	"	MCK
ROTARY TRANSFORMER MOTOR ...	25	2	1x95	260	300	26	"	MCK
Lighting " GENERATOR...	30	1	1x240	272	276	18	"	

[illegible]



LIGHTING, HEATING, WIRELESS, NAVIGATION LIGHTS, ETC., CABLES.

[illegible]

## MOTOR CABLES.

MOTOR CABLES.									
ALL IMPORTANT MOTORS TO BE ENUMERATED.	No.	B.H.P.							
Turning gear ✓	1	7	1	2x16	50	50	80	rubber	MKK ✓
Separator ✓	3	2,6	1	1x4	20	22	80	"	MKK
Cooling water pump	1	0,65	1	2x1,5	10	10	70	"	MKK
Condenser pump ✓	1	1,2	1	2x2,5	15	16	48	"	MKK
Refricompessor	1	5	1	2x10	35	38	120	"	MKK all replaced
Freshwater pump ✓	1	1,6	1	2x2,5	15	16	70	"	MKK by MK
Sanitary pump ✓	1	1,6	1	2x2,5	15	16	70	"	MKK see report 125 A
Fueloil pump ✓	1	4	1	2x6	25	30	60	"	MKK
Lubricating pump ✓	2	6	1	2x10	35	38	54	"	MKK
Engine fan ✓	1	5	1	2x16	50	50	80	"	MKK
Lubricating pump ✓	2	45	2	1x95	260	300	40	"	Mk-MKK
Freshwater pump ✓	2	25	1	1x120	160	177	40	"	MK
Transformer	1	34	2	1x70	200	250	24	"	MKK
Demag-crane ✓	1	6	1	2x16	50	50	85	"	MKK
Fan ✓	1	11	1	1x25	60	63	75	"	MKK
Fuel oil pump	1	9	1	1x25	60	63	24	"	MK
Seawater pump ✓	2	34	1	1x150	200	205	12	"	MKK



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. SIEMENS-SCHUCKERTWERKE

Aktiengesellschaft  
Baubüro Howaldtswerke A. G.

Electrical Contractors.

Date 21/10/41

#### 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. NO 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 quality of workmanship is good  
and the installation will, in my opinion  
be eligible for the vessel as contemplated  
when lead sheathed cables are fitted  
as required by the rules.

Total Capacity of Generators 325 Kilowatts.

The amount of Fee ... £ : : When applied for,

19.

When received,

19.

Travelling Expenses (if any) £ : :

Surveyor to Lloyd's Register of Shipping.

Committee's Minute.

Assigned.

See minute on  
V.P.S.



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