

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

Built at Sunderland By whom built Sir J. Laing & Sons, Ltd. Yard No. When built 1941

Owners A/S FALKERJELL Port belonging to Oslo

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

earthlamps

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 later 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

Alternative Lighting, are the groups of lights in the engine and boiler rooms arranged as per Rule... yes ... Emergency Supply, state position

Navigation Lamps, are they separately wired... yes ... controlled by separate double pole switches and fuses... yes ... Are the switches and fuses in a position accessible only to the officers on watch... yes ... is an automatic indicator fitted... yes ... Is an alternative supply provided... yes

Secondary Batteries, are they constructed and fitted as per Rule... yes ... are they adequately ventilated... yes

state battery capacity in ampère hours... 90 Ah

Fittings, are all fittings on weather decks, in stokeholds and engine rooms and wherever exposed to drip or condensed moisture, weatherproof... yes

Are any fittings installed where readily combustible materials or inflammable or explosive dust or gases are likely to be present... no

if so, how are they protected... - ... Are all fittings suitably ventilated... -

Searchlight Lamps, No. of... 1 ... whether fixed or portable... portable ... are they of the carbon arc or of the filament type... -

Heating and Cooking, is the general construction as per Rule... yes ... 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 compartments in which inflammable gases cannot accumulate and protected from damage from water, steam and oil... yes

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 pump compartment... yes

Have motors of 100 BHP and over been inspected by the Surveyors during manufacture and testing... -

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

Control Gear and Resistances, are they constructed and fitted as per Rule... yes ... Lightning Conductors, where required are they fitted as per Rule... -

Ships carrying Oil having a Flash Point less than 150° F. Have all the special requirements of the Rules for such ships been complied with... see letter ... are all fuses of an Approved Cartridge Type... yes ... make of fuse... Siemens ... Are the fittings for pump rooms, 'tween deck spaces, etc., in accordance with the special requirements for such ships... see letter ... Are the cables lead covered as per Rule... see letter

E.S.D., if fitted state maker... Hughes ... location of transmitter... engine room ... and receiver... engine room

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

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

PARTICULARS OF GENERATING PLANT.

DESCRIPTION OF GENERATOR.	No. of	MAKER.	RATED AT				TYPE.	PRIME MOVER.	MAKER.
			Kilowatts per Generator.	Volts.	Ampères.	Revs. per Min.			
MAIN GENERATOR	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 GENERATOR	1								
TRANSFORMER	1								
TRANSFORMER emergency	1								

GENERATOR CABLES.

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

DESCRIPTION.	KILOWATTS.	CONDUCTORS.		MAXIMUM CURRENT IN AMPERES.		APPROX. LENGTH (lead plus return) ft.	INSULATION.	PROTECTIVE COVERING.
		No. in Parallel per Pole.	Sectional Area or No. and Dia. of Strands. sq. mm.	In the Circuit.	Rule.			
MAIN GENERATORS	100	3	1x190	435	530	21	rubber	MKK
" " EQUALISER		1	1x185	200	237	10	"	MKK
EMERGENCY GENERATOR	6	1	1x25	60	63	50	"	MKK
TRANSFORMER MOTOR	25	2	1x95	260	300	26	"	MK
Lighting GENERATOR	30	1	1x240	272	276	18	"	MK

acceptable by rule but not in accordance with plans

MAIN DISTRIBUTION CABLES (to Section Boards, Distribution Fuse Boards, etc.).

DESCRIPTION.	No.	Sectional Area or No. and Dia. of Strands. sq. mm.	In the Circuit.	Rule.	APPROX. LENGTH (lead plus return) ft.	INSULATION.	PROTECTIVE COVERING.
midship	1	1x50	100	100	180	rubber	MK
galley	1	1x25	60	63	100	"	MKK



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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.
Kiel

Electrical Contractors.

Date 2/11/41

COMPASSES.

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

Builder's Signature.

Date.....

Have the foregoing descriptions and schedules been verified and found correct.....

Yes.

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
Travelling Expenses (if any) £ : : When received, 19

W. B. S. Surveyor to Lloyd's Register of Shipping.

Committee's Minute.....

Assigned.....

See minute on W.B.S.

2m.9.46.—Transfer. (MADE AND PRINTED IN ENGLAND.)
(The Surveyors are requested not to write on or below this space for Committee's Minute.)



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