

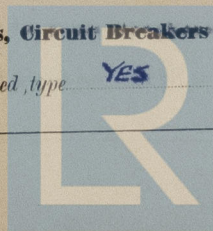
REPORT ON ELECTRICAL EQUIPMENT.

(OTHER THAN FOR THE PROPULSION OF THE VESSEL)

Received at London Office

Date of writing Report 13-Sept-48 When handed in at Local Office 29/9/48 Port of Belfast
 No. in Survey held at Belfast Date, First Survey 4 Aug 1948 Last Survey 16-Sept 1948
 Reg. Book. 90370 on the M. V. "Jalta" Sup. 1 Tons { Gross 8250
 Net 4800
 Built at Belfast By whom built Havland & Wolff Yard No. 1373 When built 1947-8
 Owners Bulls Tankrederi Port belonging to Sandefjord
 Electric Light Installation fitted by Havland & Wolff Contract No. 1373 When fitted 1948
 Is the Vessel fitted for carrying Petroleum in bulk Yes

System of Distribution Two Wire
 Pressure of supply for Lighting 110 volts, Heating 110 volts, Power 110 volts.
 Direct or Alternating Current, Lighting Direct Current Power Direct Current
 If alternating current system, state frequency of periods per second
 Has the Automatic Governor been tested and found efficient when the whole load is suddenly thrown on or off Yes
 Generators, do they comply with the requirements regarding temperature rise Yes, are they compound wound Yes
 are they over compounded 5 per cent. Yes, if not compound wound state distance between each generator
 Where more than one generator is fitted are they arranged to run in parallel No, is an adjustable regulating resistance fitted in series with each shunt field Yes
 Have certificates of test results for machines under 100 kw. been submitted and approved Yes
 Have machines over 100 kw. been inspected by the Surveyors during manufacture and testing Yes, SEE REMARKS.
 Are all terminals accessible, clearly marked, and furnished with sockets Yes, are they so spaced or shielded that they cannot be accidentally earthed, short circuited, or touched Yes
 Are the lubricating arrangements of the generators as per Rule Yes
 Position of Generators Engine Room Tank Top STAR FORWARD, is the ventilation in way of the generators satisfactory Yes
 are they clear of all inflammable material Yes if situated near unprotected woodwork or other combustible material, state distance of same horizontally from or vertically above the generators
 are the generators protected from mechanical injury and damage from water, steam or oil Yes, are their axes of rotation fore and aft YES
 Earthing, are the bedplates and frames of the generating plant efficiently earthed YES are the prime movers and their respective generators in metallic contact YES
 Main Switch Boards, where placed PLATFORM E.R. TANK TOP STAR.
 If the generators and main switchboard are not placed in the same compartment, is each generator provided with a fuse on each insulated pole as near as possible to the terminals of the generator, additional to that provided on the main switchboard
 Switchboards, are they placed in accessible positions, free from inflammable gases and acid fumes YES, are they protected from mechanical injury and damage from water, steam or oil YES, if situated near unprotected woodwork or other combustible material, state distance of same horizontally from or vertically above the switchboards YES and YES, are they constructed wholly of durable, non-ignitable non-absorbent materials YES, is all insulation of high dielectric strength and of permanently high insulation resistance YES
 is it of an approved type YES, if semi-insulating material is used, are all conducting parts insulated from the slab with mica or micanite or other non-hygroscopic insulating material, and the slab similarly insulated from its framework YES, is the non-hygroscopic insulating material of an approved type YES, and is the frame effectively earthed YES
 Are the fittings as per Rule regarding:— spacing or shielding of live parts YES, accessibility of all parts YES, absence of fuses on back of board YES, temperature rise of omnibus bars YES, individual fuses to voltmeter, pilot or earth lamp YES, are moving parts of switches alive in the "off" position NO are all screws and nuts securing connections effectively locked YES are any fuses fitted on the live side of switches NO
 Main Switchgear, description of switchgear for each generator and each outgoing circuit, and arrangement of equalizer switches
400 AMP. D.P. CIRCUIT BREAKER WITH O/L & T/L TRIPS: D.P.C.O. SWS. & FUSES: NO EQUALIZER
 Are turbine driven generators fitted with emergency trip switch as per rule YES Are cupboards or compartments containing switchboards composed of fire-resisting material or lined with approved material YES
 Instruments on main switchboard 2 ammeters 2
 voltmeters — synchronising device for paralleling purposes. For compound machines is the ammeter connected on the opposite pole to equaliser connection
 Earth Testing, state what means are provided at the main switchboard for indicating the state of the insulation of the system
2 LAMP SYSTEM WITH D.P.C.O. SWITCH & FUSES (SW. POSITION FOR EACH SET OF BUSBARS) Switches, Circuit Breakers and Fusible Cut-outs, do these comply with the requirements of the Rules YES are the fusible cutouts of an approved type YES have the reversed



M. V. JALTA

Miscellaneous

DESCRIPTION	No. of Motors	Conductors		Composition of Strand		Total Max. Current Amperes		Approx. Length lead v return feet.	Insulated With.	How PROTECTED.
		No. Per Pole	Total nominal Area Per Pole Sq. Ins.	No.	Diameter.	In Circuit	Rule			
Hydro extractor	1	1	0.01	7	0.044	26	31	50	Rubber.	L.C.B.
Ironing Machine	1	1	0.003	3	0.036	9	10	40	"	"
Washing Machine	1	1	0.003	3	0.036	9	10	40	"	"
Galley Comp.	1	1	0.003	3	0.036	3.2	10	70	"	"
"	1	1	0.003	3	0.036	3.2	10	70	"	"
Hobart Mixer	1	1	0.003	3	0.036	5	10	70	"	"
Refrig. Comp.	1	1	0.01	7	0.044	24	31	50	"	L.S.A.B.
Refrig. pump	1	1	0.0145	Ref. 561/3	0.136	9	57	200	MINERAL	COPPER SHEATH.
F.O. Purifier	1	1	0.04	Ref. 422/1	0.226	80	104	120	MINERAL	COPPER SHEATH
"	1	1	"	"	"	"	"	120	"	"
L.O. Purifier	1	1	"	"	"	"	"	120	"	"
E.R. Crane	1	1	0.01	Ref. 290/1	0.113	26	42	200	"	"
S&F Box 1	1	1	0.01	7	0.044	28	31	Flood Ltg. 120 NAV 200	Rubber.	L.C.B.
Dist "	2	1	0.075	19	0.072	77	97	60	"	"
"	3	1	0.01	7	0.044	24	31	60	"	"
S&F "	4	1	0.04	Ref. 422/1	0.226	44	104	200	Mineral	Copper Sheath.
Dist "	5	1	0.01	7	0.044	20	31	60	Rubber	L.C.B.
"	6	1	0.007	7	0.036	15	24	40	"	"
S&F "	7	1	0.01	7	0.044	24	31	20	"	"
Dist "	8	1	0.06	19	0.064	61	83	90	"	"
"	9	1	0.045	7	0.052	30	37	140	"	"
"	10	1	0.007	7	0.036	16	24	80	"	"
"	11	1	0.01	7	0.044	9	31	350	"	L.S.A.B.
"	12	1	0.01	7	0.044	20	31	60	"	L.C.B.
"	13	1	0.007	7	0.036	18	24	50	"	"
"	14	1	0.007	7	0.036	6	24	50	"	"
S&F "	15	1	0.03	Ref. 386/1	0.197	30	87	330	Mineral	Copper Sheath.
"	16	1	0.0225	Ref. 349/1	0.169	50	75	130	"	"
"	17		NOT FITTED.							
"	18	1	0.01	Ref. 469/2	0.113	21	42	70	Mineral	Copper Sheath.
"	19	1	0.01	"	"	21	42	70	"	"
"	20	1	0.007	437/2	0.094	12	28	70	"	"

current protection devices been tested under working conditions — are all fuses labelled as per rule **YES**

Joint Boxes, Section and Distribution Boards, is the construction, protection, insulation, material, and position of these as per rule **YES**

Cables: Single, twin, concentric, or multicore **SINGLE & TWIN** are the cables insulated and protected as per Tables IV, V, X, XI, XII or XIII of the Rules **YES**

If the cables are insulated otherwise than as per Rule, are they of an approved type — **Fall of Pressure,** state maximum between bus bars and any point of the installation under maximum load **4.5 VOLTS** **Cable Sockets,** are the ends of all cables having a sectional area of 0.04 square inch and above provided with soldering sockets **YES** **Paper Insulated and Varnished Cambric Insulated Cables,**

If conductors are paper or varnished cambric insulated, is the dielectric at the exposed ends of the conductor protected from moisture by being suitably sealed with insulating compound —, or waterproof insulating tape — **Cable Runs,** are the cables fixed as far as possible in accessible positions not exposed to drip or accumulation of water or oil, or to high temperature from boilers, steam pipes, uptakes or other hot objects, or to avoidable risk of mechanical damage **YES** are cables laid under machines or floorplates **YES** if so, are they adequately protected **YES**

Are cables in machinery spaces, galleys, laundries, bathrooms and lavatories lead covered or run in conduit **L.C. OR PYROTEX** **Inverted M.S. Channel.**

Support and Protection of Cables, state how the cables are supported and protected **Along fore and aft gangway: Perforated traying and clipped to Bulkhead (L.C. only) elsewhere.**

If cables are run in wood casings, are the casings and caps secured by screws —, are the cap screws of brass —, are the cables run in separate grooves — **If armoured and lead covered cables are secured by metal clips, are the clips spaced as per Table VIII** **YES**

Refrigerated Chambers, are the cables and fittings in accordance with the special requirements **YES**

Joints in Cables, state if any, and how made, insulated, and protected **NONE**

Watertight Glands and Deck Tubes, are all cables passing through decks and watertight bulkheads provided with deck tubes or watertight glands **YES** **Bushes in Beams and Non-watertight Partitions,** where unarmoured cables pass through beams and non-watertight partitions, are the holes efficiently bushed **YES** state the material of which the bushes are made **LEAD**

Earthing Connections, state what earthing connections are fitted and their respective sectional areas —, are their connections made as per Rule —

Alternative Lighting, are the groups of lights in the propelling machinery space arranged as per Rule **YES** **Emergency Supply,** state position and method of control of the emergency supply and how the generator is driven —

Navigation Lamps, are these separately wired **YES**, controlled by separate switch and separate fuses **YES**, are the fuses double pole **YES**, are the switches and fuses grouped in a position accessible only to the officers on watch **YES**

has each navigation lamp an automatic indicator as per Rule **YES** **Secondary Batteries,** are they constructed and fitted as per Rule **YES** are they ventilated as per Rule **YES**

Fittings, are all fittings on weather decks, in storerooms and engine rooms and wherever exposed to drip or condensed moisture, watertight **YES** are any fittings placed in spaces in which goods are liable to be stacked in close proximity to them; if so, how are they protected **CAST IRON**

FITTINGS WITH THICK GLASS FRONT PIECE

are any fittings placed in spaces where inflammable or explosive dust or gases are liable to be present, if so, how are they protected **FLAME-PROOF**

"WIGAN" FITTINGS WHERE NECESSARY how are the cables led **CLIPPED TO BEAMS ON PERFORATED TRAYING**

where are the controlling switches situated **NON-DANGEROUS POSITIONS**

are all fittings suitably ventilated **YES**, are all switches and lampholders constructed wholly of non-ignitable, non-absorbent materials **YES**

Heating and Cooking Appliances, are they constructed and fitted as per Rule **YES**, are air heaters constructed and fitted as per Rule **YES**

Searchlight Lamps, No. of 1 whether fixed or portable **PORTABLE**, are their fittings as per Rule **YES**

Motors, are their working parts readily accessible **YES**, are the coils self-contained and readily removable for replacement **YES**

are the brushes, brush holders, terminals and lubricating arrangements as per Rule **YES**, are the motors placed in well-ventilated compartments in which inflammable gases cannot accumulate and clear of all inflammable material **YES**, are they protected from mechanical injury and damage from water, steam or oil **YES** are their axes of rotation fore and aft **YES**, if situated near unprotected woodwork or other combustible material, are the motors of the totally enclosed, pipe ventilated, forced draught, drip or flame proof type —, if not of this type, state distance of the combustible material horizontally or vertically above the motors — and —

have machines of over 100 BHP been inspected by the Surveyors during manufacture and testing — have certificates for all motors for essential services been supplied and approved — **Control Gear and Resistances,** are the generator field and motor speed regulators, starters and controllers constructed and fitted as per Rule **YES** **Lightning Conductors,** where lightning conductors are required, are these fitted as per Rule **YES** **Ships carrying Oil having a Flash Point less than 150° F.** Have the special requirements of the Rules been complied with regarding switches, joint boxes, section and distribution boards, protection of cables, method of distribution, lead of cables, lights and fittings **YES** are all fuses of the fitted cartridge type **YES** are they of an approved type **YES**

If portable lamps for use in dangerous spaces are supplied, are they of a self-contained, battery-fed flameproof type approved for use in dangerous spaces **YES**

Spare Gear, if the vessel is for open sea service have spares been supplied as per Rule **YES** are they suitably stored in dry situations **YES**

PARTICULARS OF GENERATING PLANT.

DESCRIPTION OF GENERATOR.	No. of	RATED AT				DRIVEN BY	WHERE DRIVEN BY AN INTERNAL COMBUSTION ENGINE.	
		Kilowatts.	Volts.	Ampères.	Revs. per Min.		Fuel Used.	Flash Point of Fuel.
MAIN	2	40	110	364	640	1- Diesel & 1- Steam	OIL	ABOVE 150°F.
AUXILIARY								
EMERGENCY								
ROTARY TRANSFORMER								

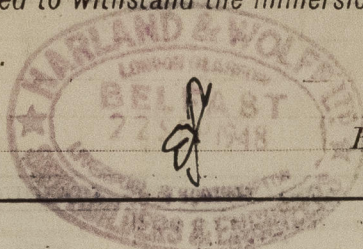
GENERATOR, LIGHTING AND HEATING CONDUCTORS.

DESCRIPTION.	CONDUCTORS.		COMPOSITION OF STRAND.		TOTAL MAXIMUM CURRENT. AMPERES.		Approximate Length. (Lead and Return.) Feet.	Insulated with	HOW PROTECTED.
	No. per Pole.	Total Nominal Area per Pole Sq. Ins.	No.	Diameter.	Circuit.	Rule.			
MAIN GENERATOR	1	0.6	91	0.093	364	384	120	RUBBER	L.S.A.B.
EQUALISER CONNECTIONS									
AUXILIARY GENERATOR									
EMERGENCY GENERATOR									
ROTARY TRANSFORMER { MOTOR GENERATOR									
ENGINE ROOM { S.F. Box 18. 19. 20.	1	0.01	Ref. 469/2	0.113	23 ✓	42	150	MINERAL	COPPER SHEATH
BOILER ROOM	1	0.007	437/2	0.093	14 ✓	28	150	"	"
AUXILIARY SWITCHBOARDS									
MASTERBOARD	1	0.4	61	0.093	263 ✓	288	600	RUBBER	L.S.A.B.
SECT. BOX No 1.	1	0.04	Ref. 422/1	0.226	85 ✓	104	240	MINERAL	COPPER SHEATH
" " " 2	1	0.06	Ref. 484/1	0.276	102 ✓	135	210	"	"
" " " 3	1	0.04	Ref. 422/1	0.226	60 ✓	104	120	"	"
GYRO CONTROL PANEL	1	0.007	7	0.036	13 ✓	24	90	RUBBER	L.S.A.B.
ACCOMMODATION									
WIRELESS	1	0.1	19	0.083	30 ✓	118	750	RUBBER	L.S.A.B.
SEARCHLIGHT	1	0.06	19	0.064	35 ✓	83	540	"	"
MASTHEAD LIGHT	1	0.002	3	0.29	0.2 ✓	5	450	"	"
SIDE LIGHTS	1	"	3	0.29	0.2 ✓	5	75	"	L.C.B.
COMPASS LIGHTS	1	"	3	0.29	0.2 ✓	5	20	"	"
POOP LIGHTS	1	"	3	0.29	0.2 ✓	5	800	"	L.S.A.B. & L.C.B.
CARGO LIGHTS	1	0.007	7	0.36	6.0 ✓	24	300	"	"
HEATERS									

MOTOR CONDUCTORS.

DESCRIPTION.	No. of Motors.	CONDUCTORS.		COMPOSITION OF STRAND.		TOTAL MAXIMUM CURRENT. AMPERES.		Approximate Length. (Lead and Return.) Feet.	Insulated with	HOW PROTECTED.
		No. Per Pole.	Total Nominal Area per Pole Sq. Ins.	No.	Diameter.	In Circuit.	Rule.			
BALLAST PUMP										
MAIN BILGE LINE PUMPS										
GENERAL SERVICE PUMP										
EMERGENCY BILGE PUMP										
SANITARY PUMP										
CIRC. SEA WATER PUMPS										
CIRC. FRESH WATER PUMPS	1	1	0.01	Ref. 290/1	0.113	26 ✓	42	150	MINERAL	COPPER SHEATH
AIR COMPRESSOR	1	1	0.0045	7	0.029	15 ✓	15	40	RUBBER	L.C.B.
FRESH WATER PUMPS (Aft & Fwd)	1	1	0.007	7	0.036	15 ✓	24	60	"	L.S.A.B.
ENGINE TURNING GEAR	1	1	0.04	Ref. 422/1	0.226	80 ✓	104	150	MINERAL	COPPER SH.
ENGINE REVERSING GEAR										
LUBRICATING OIL PUMPS										
OIL FUEL TRANSFER PUMP										
WINDLASS										
WINCHES, FORWARD										
WINCHES, AFT										
STEERING GEAR—										
(a) MOTOR GENERATOR										
(b) MAIN MOTOR	1	1	0.007	Ref. 437/2	0.92	15 ✓	28	30	MINERAL	COPPER SHEATH
WORKSHOP MOTORS	1	1	0.01	Ref. 469/2	0.113	18 ✓	42	30	"	"
VENTILATING FANS	1	1	"	"	"	"	"	"	"	"
Vent. Fan No. 1.	1	1	0.01	7	0.044	27 ✓	31	50	RUBBER	L.S.A.B.
" 2.	1	1	0.01	Ref. 290/1	0.113	27 ✓	42	80	MINERAL	COPPER SHEATH
" 3.	1	1	0.01	Ref. 290/1	0.113	27 ✓	42	80	"	"
Galley Ex. Fan	1	1	0.003	3	0.036	6 ✓	10	40	RUBBER	L.C.B.
Pantry Ex. Fan	1	1	0.002	3	0.029	2 ✓	5	100	"	"
Hospital Fan	1	1	"	3	0.029	1 ✓	5	100	"	"
Laundry Fan	1	1	"	3	0.029	1 ✓	5	60	"	"

The Electrical Equipment is installed in accordance with the approved plans.
All Insulated Conductors are guaranteed to withstand the immersion and resistance tests specified in the Rules.
The foregoing is a correct description.



Electrical Engineers.

Date Sept 22nd '48

COMPASSES.

Minimum distance between electric generators or motors and standard compass 35 FEET

Minimum distance between electric generators or motors and steering compass 30 FEET.

The nearest cables to the compasses are as follows:—

A cable carrying 0.2 Ampères ON feet from standard compass 10 feet from steering compass.

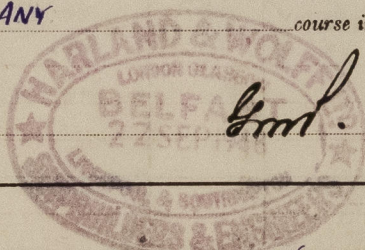
A cable carrying 0.2 Ampères 10 feet from standard compass ON feet from steering compass.

A cable carrying 40 Ampères 28 feet from standard compass 8 feet from steering compass.

Have the compasses been adjusted with and without the electric installation at work at full power YES

Has the effect of switching on and off circuits, motors and other electro-magnetic apparatus within the vicinity of the compasses been noted YES.

The maximum deviation due to electric currents was found to be NIL degrees on ANY course in the case of the standard compass, and NIL degrees on ANY course in the case of the steering compass.



Builder's Signature.

Date 23. 9. 48.

Is this installation a duplicate of a previous case No. If so, state name of vessel —

General Remarks (State quality of workmanship, opinions as to class, &c. A test certificate for the oil engine driven generator, has not been supplied. The Builders state they will forward this certificate as soon as it is received.

The electrical equipment of this vessel has been fitted on board under special survey, tested under full working conditions and, except as stated above, found satisfactory. materials and workmanship are good.

Noted sub 18/10/48

Total Capacity of Generators 80 Kilowatts.

The amount of Fee ... £ 52 : - : 29/9/1948

Travelling Expenses (if any) £ : : 19

R.I. Husekian

Surveyor to Lloyd's Register of Shipping.

Committee's Minute

Assigned

See minute in
fe mach rpl.

OCT 29 1948



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Lloyd's Register
Foundation