

REPORT ON ELECTRICAL EQUIPMENT.

(OTHER THAN FOR THE PROPULSION OF THE VESSEL)

Received at London Office.....

Date of writing Report... 31st Jan 1947 When handed in at Local Office... 5th Feb 1947 Port of... MIDDLESBROUGH

No. in Survey held at... HAVERTON HILL Date, First Survey... 30-8-46 Last Survey... 18-12-46
Reg. Book... 35896 on the... M/V. "BRITISH ADMIRAL" (Number of Visits... 12...)

Tons { Gross... 8738
Net... 4983

Built at... HAVERTON HILL By whom built... FURNESS S.B. CO. LTD. Yard No... 390 When built... 1946

Owners... BRITISH TANKER CO. LTD. Port belonging to... LONDON. BRITISH.

Electrical Installation fitted by... FURNESS S.B. CO. LTD. Contract No... 390 When fitted... 1946

Is vessel fitted for carrying Petroleum in bulk... YES Is vessel equipped with D.F... YES E.S.D... YES Gy.C... YES Sub.Sig... YES

Have plans been submitted and approved... YES System of Distribution... TWO WIRE INSULATED Voltage of supply for Lighting... 110

Heating... Power... 110 Direct or Alternating Current, Lighting... Power... If Alternating Current state periodicity... Prime Movers,

has the governing been tested and found as per Rule when full load is suddenly thrown on and off... YES Are turbine emergency governors fitted with a

trip switch as per Rule... YES Generators, are they compound wound... YES, are they level compounded under working conditions... YES

if not compound wound state distance between generators... and from switchboard... Where more than one generator is fitted are they

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... Have certificates of

test for machines under 100 kw. been supplied... YES and the results found as per rule... YES Are the lubricating arrangements and the construction

of the generators as per rule... YES Position of Generators... ENGINE ROOM. MIDSHIPS. FORD. OF MAIN ENGINE.

is the ventilation in way of generators satisfactory... YES are they clear of inflammable material... YES, if situated

near unprotected combustible material state distance from same horizontally... and vertically... are the generators protected from mechanical

injury and damage from water, steam and oil... YES are the bedplates and frames earthed... YES and the prime movers and generators in metallic

contact... YES Switchboards, where are main switchboards placed... ENGINE ROOM ON FORD BULKHEAD BY GALLERY. AUX

SWITCHBOARD IN MIDSHIPS ACCOM.

are they in accessible positions, free from inflammable gases and acid fumes... YES, are they protected from mechanical injury and damage from water, steam

and oil... YES, if situated near unprotected combustible material state distance from same horizontally... and vertically... what insulation

material is used for the panels... EBONY SINDANYO, if of synthetic insulating material is it an Approved Type... YES, if of

semi-insulating material (slate or marble) are all conducting parts insulated therefrom as per Rule... Is the frame effectually earthed... YES

Is the construction as per Rule... YES, including accessibility of parts... YES, absence of fuses on the back of the board... YES, individual fuses

to pilot and earth lamps, voltmeters, etc... YES, locking of screws and nuts... YES, labelling of apparatus and fuses... YES, fuses on the "dead"

side of switches... YES Description of Main Switchgear for each generator and arrangement of equaliser switches... 400 AMPERE T.

CIRCUIT BREAKERS WITH OVERLOAD, NO VOLT AND REVERSE CURRENT PROTECTION.

and for each outgoing circuit... DOUBLE POLE G.B. SWITCH AND DOUBLE POLE FUSE.

Are compartments containing switchboards composed of fire-resisting material or lined as per Rule... YES Instruments on main switchboard... 8

ammeters... 4 voltmeters... synchronising devices. For compound machines in parallel is the ammeter connected on the pole opposite to the

equaliser connection... YES Earth Testing, state means provided... EARTH LAMPS CONNECTED TO "E" THROUGH SWITCHES AND FUSES.

Switches, Circuit Breakers and Fuses, are they as per Rule... YES, are the fuses an approved type... YES, are all fuses labelled as

per Rule... YES If circuit breakers are provided for the generators, at what overload current did they open when tested... 50%, are the reversed current

protection devices connected on the pole opposite to the equaliser connection... YES, have they been tested under working conditions, and at what current

did they operate... 10% Joint Boxes, Section Boards and Distribution Boards, is the construction and position as per Rule... YES

Cables, are they insulated and protected as per the appropriate Tables of the Rules... YES, if otherwise than as per Rule are they of an approved type... YES

state maximum fall of pressure between bus bars and any point under maximum load... 64, are the ends of all cables having a sectional area of 0.8

square inch and above provided with soldering sockets... YES Are paper insulated and varnished cambric insulated cables sealed at the ends... YES

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and found satisfactory yes

DESCRIPTION.	KILOWATTS.	CONDUCTORS.		MAXIMUM CURRENT IN AMPERES.		APPROX. LENGTH (load plus return feet).	INSULATED WITH.	HOW PROTECTED.
		No. in Parallel For Pole.	Sectional Area or No. and Dia. of Strands. Sq. ins. or sq. mm.	In the Circuit.	Rule.			
MAIN GENERATOR	250	1	24/073	275	296	400	V.C.	L.C.A. + B
EQUALISER	1	1	9/073		191	2	V.C.	"
EMERGENCY GENERATOR								
ROTARY TRANSFORMER: MOTOR								
GENERATOR								

ALL IMPORTANT MOTORS TO BE ENUMERATED.		No.	B.H.P.									
PRIMING PUMP MOTOR		1	1 1/2	1	4/029	10	15	140	V.I.R.	L.C.A.+B		
LATHE MOTOR		1	3	1	4/030	20	24	90	V.I.R.	"		
GRINDER MOTOR		1	1 1/2	1	4/029	10	15	72	V.I.R.	"		
No.1. OIL PURIFIER MOTOR		1	2	1	4/036	14	24	150	V.I.R.	"		
No2. "		1	2	1	4/036	14	24	140	V.I.R.	"		
CRANE MOTOR		1	3	1	4/044	21	HR.	100	V.C.	"		
BOAT HOIST MOTOR	PORT	1	2	1	4/036	15	24	70	V.I.R.	L.C.B.		
"	STBD	1	2	1	4/036	15	24	170	V.I.R.	"		
HOSPITAL FAN		1	2 1/4	1	4/036	14	24	100	V.I.R.	"		
GYRO COMPASS				1	4/036	8	24	160	V.I.R.	"		
AFT BOAT HOIST MOTOR	PORT	1	2	1	4/036	15	24	160	V.I.R.	L.C.B.		
"	STBD	1	2	1	4/036	15	24	70	V.I.R.	"		
VEG ROOM FAN		1	1/4	1	3/029	2	5	90	V.I.R.	L.C.A.+B.		
GALLEY BLOWER		1	1/4	1	3/029	2	5	70	V.I.R.	"		
REAR VENT FAN		1	1/4	1	3/029	2	5	180	V.I.R.	"		
GALLEY VENT FAN		2	.2	1	3/029	2	5	120	V.I.R.	"		
ENGINE ROOM SUPPLY FAN		1	1 1/2	1	4/029	10	15	150	V.I.R.	"		
AFT ACCOM VENT FAN	PT	1	2 3/4	1	4/036	20	24	120	V.I.R.	L.C.B.		
"	ST.	1	2 3/4	1	4/036	20	24	120	V.I.R.	"		
MIDSHIP ACCOM V. FAN	PT	1	2	1	4/036	14	24	100	V.I.R.	"		
"	ST.	1	2	1	4/036	14	24	100	V.I.R.	"		

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.

FURNESS SHIPBUILDING CO. LIMITED

Electrical Engineers.

Date

COMPASSES.

Minimum distance between electric generators or motors and standard compass

Minimum distance between electric generators or motors and steering compass

The nearest cables to the compasses are as follows:—

A cable carrying $\frac{1}{4}$ Ampères $\frac{1}{16}$ feet from standard compass feet from steering compass.

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A cable carrying Ampères feet from standard compass 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 EVERY course in the case of the standard compass, and NIL degrees on EVERY course in the case of the steering compass.

Builder's Signature.

Date

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 25-4-46.

Certificates. Are certificates of test for motors engaged on essential services and generators forwarded herewith GENERATORS.

General Remarks (State quality of workmanship, whether insulation tests, etc., have been made, opinions as to class, etc.) The Electrical

Equipment of this vessel has been installed in conformity with the Society's Rules and Regulations, and the arrangements are in accordance with, or equivalent to those shown on the approved plans.

Materials used are of good quality and the workmanship is satisfactory.

On completion the Insulation resistance of all circuits was above the Requirements and the Generators operated on Load and Governor tests with satisfactory results.

The Equipment as installed is, in my opinion, suitable for a classed Vessel.

Total Capacity of Generators 90 Kilowatts.

The amount of Fee £ 31 : 10 : 5-2-1947

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

Committee's Minute

Assigned

Su F.E. mch. opt

Surveyor to Lloyd's Register of Shipping.



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