

REPORT ON ELECTRICAL EQUIPMENT.

(OTHER THAN FOR THE PROPULSION OF THE VESSEL)

8 JUL 1942

Date of writing Report... 25th June 1942 When handed in at Local Office... 3-7-42 Port of... Belfast
 No. in Survey held at... Belfast Date, First Survey... 2nd Last Survey... 28 June 1942
 Reg. Book. (Number of Visits... 7.)
 on the... M. V. Empire Chapman
 Built at... Belfast By whom built... Messrs Harland & Wolff Ltd. No. 1080 When built... 1941/2
 Owners... Ministry of Shipping Port belonging to... Belfast
 Electrical Installation fitted by... Messrs Harland & Wolff Ltd. Contract No. 1080 When fitted... 1942
 Is vessel fitted for carrying Petroleum in bulk... yes Is vessel equipped with D.F. yes E.S.D. yes Gy.C. no Sub.Sig. no
 Have plans been submitted and approved... yes System of Distribution... Two wire system Voltage of supply for Lighting... 110
 Heating... Power... 110 Direct or Alternating Current, Lighting... D.C. Power... D.C. 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... 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... no, 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... none 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... starboard side of motor room
 ... 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... On platform, starboard side of motor
 room
 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... Interolam, 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 equalisers... One 300 amp
 double pole change over knife switch, slow break, with 250 amp fuse on each
 pole
 and for each outgoing circuit... Double pole change over knife switches with fuses on each pole
 Are compartments containing switchboards composed of fire-resisting material or lined as per Rule... yes Instruments on main switchboard... 2
 ammeters... 2 voltmeters... synchronising devices. For compound machines in parallel is the ammeter connected on the pole opposite to the
 equaliser connection... Earth Testing, state means provided... Two earth lamps with two way off switch
 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... are the reversed current
 protection devices connected on the pole opposite to the equaliser connection... have they been tested under working conditions, and at what current
 did they operate... 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...
 state maximum fall of pressure between bus bars and any point under maximum load... 4.5 are the ends of all cables having a sectional area of 0.04
 square inch and above provided with soldering sockets... yes Are paper insulated and varnished cambric insulated cables sealed at the ends... none

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.
MAIN	2	25	110	227	600	STEAM ENGINE	—
EMERGENCY							
ROTARY TRANSFORMER							

GENERATOR CABLES.								
DESCRIPTION.	KILOWATTS.	CONDUCTORS.		MAXIMUM CURRENT IN AMPERES.		APPROX. LENGTH (lead plus return feet).	INSULATED WITH.	HOW PROTECTED.
		No. in Parallel Per Pole.	Sectional Area or No. and Dia. of Strands. Sq. ins. or sq. mm.	In the Circuit.	Rule.			
MAIN GENERATOR	25 1/2	1	37/103	227	240	45	RUBBER	L. S. A. B.
" " EQUALISER								
EMERGENCY GENERATOR								
ROTARY TRANSFORMER: MOTOR								
" " GENERATOR								

[illegible]

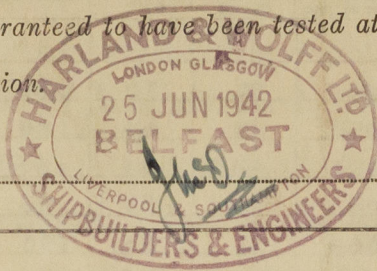
WIRELESS ... (DUPLICATED) ...	1	19/064	23	83	675	RUBBER	L S A B
NAVIGATION LIGHTS (DUPLICATED)	1	7/029	2	15	675	"	"
LIGHTING AND HEATING DIST. BOX No. 1 ...	1	7/052	31	37	90	"	L C
DIST. BOX No. 2 LIGHTING ACCOMMN.	1	7/029	9.5	15	50	"	"
" " No. 3	1	7/044	31.5	31	28	"	"
" " No. 4	1	7/036	14	24	28	"	"
" " No. 5 PORTABLE CONNECTIONS FORWARD	1	7/044	11.5	31	460	"	L S A B
" " No. 6 LIGHTING FORESL	1	7/044	4.0	31	320	"	"
" " No. 7 PORTABLE CONNECTION AFT	1	7/029	6.5	15	50	"	L C
" " No. 8 LIGHTING ACCOMMODATION AFT	1	7/044	23.2	31	195	"	"
" " No. 9	1	7/044	21.5	31	30	"	"
" " No. 10 LIGHTING MOTOR ROOM	1	7/036	13	24	140	"	L S A B
" " No. 11	1	7/029	8	15	20	"	"
" " No. 12	1	7/029	8.5	15	140	"	"
" " No. 13	1	7/029	8.5	15	20	"	"
" " No. 14	1	7/029	5	15	150	"	"
" " No. 15	1	7/029	7.5	15	30	"	"

ALL IMPORTANT MOTORS TO BE ENUMERATED.	No.	B.H.P.							
TURNING MOTOR	1	10	1	19/064	80	83	120	RUBBER	L S A B
WORKSHOP MOTOR	1	3.0	1	7/044	28	31	115	"	"
F.O. PURIFIER	1	3.0	1	7/044	28.1	31	180	"	"
STANDBY F.O. PUMP	1	1.75	1	7/036	15.9	24	165	"	"
LUB. OIL PURIFIER	1	2.5	1	7/036	21.3	24	180	"	"
SUPPLY FAN NO.1 (FORD ACCOMMN)	1	3.0	1	7/064	26	46	480	"	L S A B & L C
Nº2 (AFT ACCOMMN)	1	3.0	1	7/044	26	31	80	"	L S A B
32 1/2" ENGINE ROOM FAN NO.1	1	4.0	1	7/064	35	46	125	"	"
" " " " Nº2	1	4.0	1	7/064	35	46	110	"	"

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.



Electrical Engineers.

Date

COMPASSES.

Minimum distance between electric generators or motors and standard compass eighteen feet

Minimum distance between electric generators or motors and steering compass twenty feet

The nearest cables to the compasses are as follows:—

A cable carrying 0.13 Ampères on feet from standard compass 8 feet from steering compass.

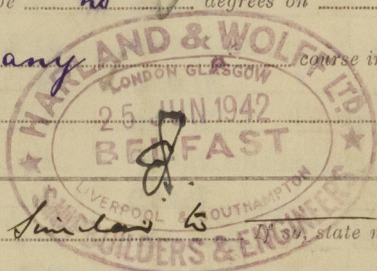
A cable carrying 0.13 Ampères 8 feet from standard compass on feet from steering compass.

A cable carrying 17 Ampères 8 feet from standard compass 10 feet from steering compass.

Have the compasses been adjusted with and without the electric installation at work at full power yes and calibrated with 2 1/2 on & off

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 no degrees on any course in the case of the standard compass, and no degrees on any course in the case of the steering compass.



Builder's Signature.

Date June 26/42.

Is this installation a duplicate of a previous case Similar to state name of vessel M.V. 'DIMSDALE' ATW. No 1078.

Plans. Are approved plans forwarded herewith no If not, state date of approval

Certificates. Are certificates of test for motors engaged on essential 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 electrical

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

Noted
True
9.9.42

Total Capacity of Generators 50 Kilowatts.

The amount of Fee £ 27 : 10 : 0 When applied for, 6.7.1942.
Due Belfast 13.15.0
Due Liverpool 13.15.0
Travelling Expenses (if any) £ : : When received, 19

H. Haffner & R. Muntz
Surveyors to Lloyd's Register of Shipping.

FRI. 10 JUL 1942

Committee's Minute

Assigned See Bel 7E, 13281



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Lloyd's Register
Foundation

5m.4.39.—Transfer. (MADE AND PRINTED IN ENGLAND.)
(The Surveyors are requested not to write on or below the space for Committee's Minute.)