

# REPORT ON ELECTRICAL EQUIPMENT.

(OTHER THAN FOR THE PROPULSION OF THE VESSEL)

Received at London Office.....

Date of writing Report... 24<sup>th</sup> July 1947. When handed in at Local Office... 25. 7. 1947. Port of... GLASGOW

No. in Survey held at... PORT GLASGOW Date, First Survey... 26<sup>th</sup> JUNE Last Survey... 23<sup>rd</sup> July 1947 (Number of Visits... 3)

85417 on the... S.S. 'YEWFOREST' (EX 'EMPIRE FENCHURCH 46') Tons { Gross 1047 Net 569

Built at... ABERDEEN By whom built... J. LEWIS & SONS LTD Yard No... 187 When built... 1945

Owners... J. STEWART & CO SHIPPING LTD Port belonging to... GLASGOW

Electrical Installation fitted by... J. LEWIS & SONS LTD Contract No... 187 When fitted... 1945

Is vessel fitted for carrying Petroleum in bulk... No Is vessel equipped with D.F... E.S.D... Gy.C... DECCA NAVIGATOR Sub-Sig YES

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

Heating... Power... Direct or Alternating Current, Lighting... D.C. 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... are shunt field regulators provided... YES Is the compound winding connected to the negative or positive pole

POSITIVE 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... ADMIRALTY MACHINE and the results found as per rule... Are the lubricating arrangements and the construction of the generators as per rule... YES Position of Generators... STARBOARD SIDE OF ENGINE 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... Switchboards, where are main switchboards placed... NEAR GENERATOR

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... INTEROHM, 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... 150 AMP DOUBLE POLE KNIFE PATTERN SWITCH WITH FUSES

and for each outgoing circuit... 30 AMP DOUBLE POLE KNIFE PATTERN SWITCH WITH FUSES

Are compartments containing switchboards composed of fire-resisting material or lined as per Rule... YES Instruments on main switchboard... 2 ammeters... 1 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... EARTH LAMPS

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... W.I.E., state maximum fall of pressure between bus bars and any point under maximum load... 2.5 Volts, 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...



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..... THIRTEEN FEET.

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

The nearest cables to the compasses are as follows:—

A cable carrying 4 Ampères 10 feet from standard compass 7 feet from steering compass.

A cable carrying 23 Ampères LED INTO ~~feet from~~ standard compass LED INTO ~~feet from~~ steering compass.

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 HNY course in the case of the

standard compass, and NIL degrees on HNY 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..... No ..... If not, state date of approval..... 28<sup>th</sup> MAY 1946

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

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

The information contained in this Report is forwarded for the consideration of the Committee as to the installation being eligible for classification.  
 The installation, so far seen, is in good order and the quality of material and workmanship is good

Notes SWK 27/9/47

Total Capacity of Generators..... 15 Kilowatts.

The amount of Fee ... .. £	:	:	When applied for,
	:	:	.....19.....
Travelling Expenses (if any) £	:	:	When received.
	:	:	.....19.....

*J. McCardie*  
 Surveyor to Lloyd's Register of Shipping.

Committee's Minute ..... GLASGOW 26 AUG 1947

Assigned..... See J.B. Melby Rpt.

5011.4.38—Transfer. (MADE AND PRINTED IN ENGLAND.)  
 (The Surveyors are requested not to write on or below the space for Committee's Minutes.)

