

REPORT ON ELECTRICAL EQUIPMENT.

(OTHER THAN FOR THE PROPULSION OF THE VESSEL)

Received at London Office. - 7 JAN 1949

Date of writing Report... 7 October 1948... When handed in at Local Office... 19... Port of... Southampton

No. in Survey held at... Portsmouth... Date, First Survey... 6th Sept... Last Survey... 23rd Sept... 1948
Reg. Book. (Number of Visits...)

on the Tanker "WAVE KING" Tons { Gross... 815.9
Net... 454.5

Built at... Glasgow... By whom built... Harland & Wolff Ltd... Yard No. ... When built... 1944

Owners... The Admiralty... Port belonging to... London

Electrical Installation fitted by... Harland & Wolff Ltd... Contract No. ... When fitted... 1944

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. ...

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... 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... Have certificates of test for machines under 100 kw. been supplied... and the results found as per rule... Are the lubricating arrangements and the construction of the generators as per rule... Yes... Position of Generators... Port side - boiler room flat... 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... After bulkhead port side of boiler room flat... 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... Syndano... 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... 350 ampere double pole knife switches with 300 ampere "Artie" indicating cartridge fuses on each pole and for each outgoing circuit... 250, 100, 60 and 30 ampere double pole knife switches and "Artie" indicating cartridge fuses.

Are compartments containing switchboards composed of fire-resisting material or lined as per Rule... Yes... Instruments on main switchboard... Two ammeters... Two 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 lamps in series with midpoint earthed and fed 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... 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... 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... Yes...

PARTICULARS OF GENERATING PLANT.

GENERATOR CABLES.

MAIN DISTRIBUTION CABLES.

LIGHTING AND HEATING, ETC., CABLES.

MOTOR CABLES.

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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.

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 Ampères feet from standard compass feet from steering compass.

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

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

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

Builder's Signature.

Date

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

Plans. Are approved plans forwarded herewith..... *Yes* If not, state date of approval..... *23/4/48*.

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 built and installed in accordance with the requirements of the British Corporation.

The installation has been checked against the "as fitted" plans as far as practicable and found to be so detailed thereon.

Minor repairs have been made and insulation tests on the equipment were found satisfactory. The equipment has been tested under working conditions and found in order.

The installation is in my opinion such as could be accepted for classification subject to that portion of the main cables clipped to the underside of the fore and aft gangway adjacent to the poop bulkhead being renewed, junction boxes fitted and suitable means provided to protect the cables against the expansion and contraction of the fore and aft gangway, before the end of September 1949 (Twelve months.)

Total Capacity of Generators..... *60* Kilowatts.

The amount of Fee £ *4* : *0* :

When applied for,

.....19.....

Travelling Expenses (if any) £ *2* : *5* : *7* :

When received,

.....19.....

J.H. Tickle

Surveyor to Lloyd's Register of Shipping.

Committee's Minute

FRI. 11 FEB 1949

Assigned

See minute on file



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