

REPORT ON ELECTRICAL EQUIPMENT.

(OTHER THAN FOR THE PROPULSION OF THE VESSEL)

Date of writing Report... 29.8.47... When handed in at Local Office... 5.9.47... Port of... WEST HARTLEPOOL

No. in Survey held at WEST HARTLEPOOL. Date, First Survey 3.4.47 Last Survey 28.8.47
Reg. Book.

on the S.T. "ARCTIC VIKING"
EX. "ARCTIC PIONEER"

Tons { Gross... 501
Net... 189

Built at SELBY. By whom built COCHRANE & SONS LTD. Yard No. 1177 When built 1937.

Owners BOYD LINE LTD. Port belonging to HULL

Electrical Installation fitted by EDGAR PHILLIPS & SON. Contract No. When fitted 1947.

Is vessel fitted for carrying Petroleum in bulk NO Is vessel equipped with D.F. YES E.S.D. YES Gy.C. - 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 DC Power DC 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 - 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 ON PLATFORM ON STARBOARD SIDE OF E.R.

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 AFT BULKHEAD STARBOARD SIDE IN

E.R. ADJACENT TO GENERATOR, FACING FORWARD.

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 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 DOUBLE POLE

DOUBLE THROW Q.B. KNIFE SWITCH THRO DOUBLE POLE FUSES.

and for each outgoing circuit DOUBLE POLE SINGLE THROW Q.B. KNIFE SWITCH AND DOUBLE

POLE FUSES.

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

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 CONNECTED TO 'E' THRO SWITCHES & 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

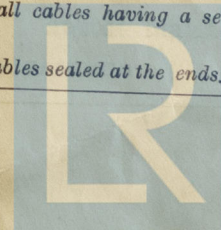
protection devices connected on the pole opposite to the equaliser connection - have they been tested under working conditions, and at what current

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 < 6v, are the ends of all cables having a sectional area of 0.5

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



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.

A. Baggins

EDGAR PHILLIPS LTD
ELECTRICAL ENGINEERS,
WEST HARTLEPOOL.

Electrical Engineers.

Date 30/8/47

COMPASSES.

Minimum distance between electric generators or motors and standard compass 95 FEET.

Minimum distance between electric generators or motors and steering compass 85 FEET.

The nearest cables to the compasses are as follows:—

A cable carrying 0.14 Ampères 6 ~~feet~~ INSIDE standard compass 6' feet from steering compass.

A cable carrying 0.14 Ampères 6 feet from standard compass INSIDE 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 EVERY course in the case of the standard compass, and NIL degrees on EVERY course in the case of the steering compass.

FOR WILLIAM GRAY & CO. LTD.,

[Signature] Builder's Signature.
DIRECTOR & REPAIRS MANAGER.

Date 3.9.47.

Is this installation a duplicate of a previous case NO. If so, state name of vessel -

Plans. Are approved plans forwarded herewith NO If not, state date of approval 23. 4. 1947.

Certificates. Are certificates of test for ~~motors engaged on essential services and~~ generator 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 INSTALLED UNDER SPECIAL SURVEY AND
THE ARRANGEMENTS ARE IN ACCORDANCE WITH OR EQUIVALENT TO THOSE SHOWN ON THE
APPROVED PLAN AND THE SOCIETY'S RULES FOR ELECTRICAL EQUIPMENT.

THE MATERIALS USED ARE OF GOOD QUALITY AND THE WORKMANSHIP IS
GOOD.

ON COMPLETION THE EQUIPMENT WAS OPERATED UNDER WORKING
CONDITIONS, THE INSULATION RESISTANCE OF ALL CIRCUITS WAS MEASURED AND
FOUND GOOD.

THIS INSTALLATION IS IN MY OPINION SUITABLE FOR A CLASSED VESSEL.
IT IS UNDERSTOOD THAT AN AUXILIARY DIESEL GENERATOR IS TO BE
INSTALLED AT THE FIRST AVAILABLE OPPORTUNITY.

Total Capacity of Generators 10 Kilowatts.

The amount of Fee ... £ 1 : 10 :
RECONDITION 4 : 4
Travelling Expenses (if any) £ : :
When applied for,19.....
When received,19.....

[Signature]
Surveyor to Lloyd's Register of Shipping.

Committee's Minute

Assigned See minute on Std 54366.



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