

Rpt. 13.

No. 102524

REPORT ON ELECTRICAL EQUIPMENT.

(OTHER THAN FOR THE PROPULSION OF THE VESSEL)

Received at London Office.....

Date of writing Report.....19..... When handed in at Local Office.....18-12-44 Port of NEWCASTLE-ON-TYNE

No. in Survey held at..... Date, First Survey (1943) Dec 10 Last Survey Dec 12th 19 44
Reg. Book. (Number of Visits 4)

on the M.V. "NAVICELLA" Tons { Gross 825.5
Net 471.5

Built at HEBBURN-ON-TYNE By whom built HAWTHORN, LESLIE & CO. LTD. Yard No. 663 When built 1944

Owners ANGLO-SAXON PETROLEUM CO. LTD. Port belonging to LONDON

Electrical Installation fitted by HAWTHORN, LESLIE & CO. LTD. Contract No. 663 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 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 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 Not received yet 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, STARBOARD SIDE

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, STARBOARD SIDE

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 "INTEROHN", 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

DOUBLE POLE CHANGE-OVER KNIFE SWITCH & DOUBLE POLE FUSES FOR NO. 1 GENERATOR.

DOUBLE POLE KNIFE SWITCH & DOUBLE POLE FUSES FOR NO. 2 GENERATOR.

and for each outgoing circuit DOUBLE POLE CHANGE-OVER SWITCH & DOUBLE POLE FUSES.

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 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 -, 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 44-4V LIGHTING, are the ends of all cables having a sectional area of 0.04 square inch and above provided with soldering sockets YES 66V POWER and mineral-insulated cables sealed at the ends YES

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.

FOR R. & W. HAWTHORN, LESLIE & CO. LIMITED.

C. Stephenson

Electrical Engineers.

Date 16/12/44

COMPASSES.

Minimum distance between ~~electric generators or motors~~ and standard compass 17 FEET

Minimum distance between ~~electric generators or motors~~ and steering compass 15 FEET

The nearest cables to the compasses are as follows:—

A cable carrying -14 Ampères inside feet from standard compass — feet from steering compass.

A cable carrying -14 Ampères — feet from standard compass — inside 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 EVERY course in the case of the

standard compass, and NIL degrees on EVERY course in the case of the steering compass.

FOR R. & W. HAWTHORN, LESLIE & CO. LIMITED.

C. Stephenson

Builder's Signature.

Date 16/12/44

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

Plans. Are approved plans forwarded herewith — If not, state date of approval 23-5-44.

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 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 tests through the installation were
good 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 60 Kilowatts.

The amount of Fee ... £ 28 : 10 : — When applied for, 12-12-1944

Travelling Expenses (if any) £ : : When received, —

Surveyor to Lloyd's Register of Shipping.

A. Diment

Committee's Minute

FRI. 5 JAN 1945

Assigned

see minute
on 2.6.44



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Foundation