

REPORT ON ELECTRICAL EQUIPMENT.

(OTHER THAN FOR THE PROPULSION OF THE VESSEL)

JUL 1943

Received at London Office.

Date of writing Report.....19..... When handed in at Local Office.....9/6/43..... Port of Belfast

No. in Survey held at Belfast Date, First Survey 2nd February Last Survey 28 May 1943
Reg. Book. (Number of Visits.....1.....)

on the No. 1. Navica Tons {Gross 8213
Net 4777

Built at Belfast By whom built Harland & Wolff Ltd Yard No. 1173 When built 1942-3

Owners Anglo Saxon Petroleum Co. Ltd. Port belonging to London

Electrical Installation fitted by Harland & Wolff Ltd. Contract No. 1173 When fitted 1943

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. 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 No 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 On Star'd 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 Star'd 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 Simdango 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 300 Amp. Double Pole change over switch with 300 fuse on each pole

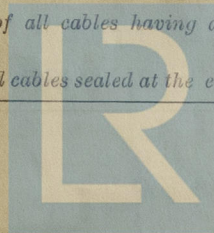
and for each outgoing circuit Double pole change over knife switches with fuses on each pole

Are compartments containing switchboards composed of fire-resisting material or lined as per Rule Yes Instruments on main switchboard 3 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 2 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 No if otherwise than as per Rule are they of an approved type Yes - Paper covered

state maximum fall of pressure between bus bars and any point under maximum load 5.21 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



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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 28-5-49

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 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 24 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 & Calibrated with D/G 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 Nil degrees on Any course in the case of the standard compass, and Nil degrees on Any course in the case of the steering compass.



Builder's Signature.

Date 28.5.49

Is this installation a duplicate of a previous case? No state name of vessel

Plans. Are approved plans forwarded herewith? Yes 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 and in accordance with the approved plans.

The materials and workmanship are good and the installation has been tested under full working conditions with satisfactory results

Noted
L.B.
6/7/49

Total Capacity of Generators 60 Kilowatts.

The amount of Fee ... £ 28 : 10 :
Due Belfast 14-5-0
Due Liverpool 14-5-0
Travelling Expenses (if any) £ : :
When applied for, 19/6/1949
When received, 19/6/1949

Surveyor to Lloyd's Register of Shipping.

TUES. 6 JUL 1949

Committee's Minute

Assigned

See fee made etc



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