

REPORT ON ELECTRICAL EQUIPMENT.

(OTHER THAN FOR THE PROPULSION OF THE VESSEL)

15 OCT 1947

Date of writing Report 19th Sept 1947 When handed in at Local Office 30th Sept 1947 Port of GLASGOW

No. in Survey held at AYR Date, First Survey 18-4-47 Last Survey 10-9-47
Reg. Book. (Number of Visits 12)

36899 on the M.V. "PASS OF BRANDER" (Ex Empire Tegambia) Tons Gross 1300 Net 163

Built at Lubeck By whom built Lubecker Flender Werke A.G. Yard No. - When built 1936

Owners Bulk Oil B.S. Co. Ltd Port belonging to London

Electrical Installation modified by Messrs. Troup Curtis, Co. Ltd Contract No. - When fitted modified 1944

Is vessel fitted for carrying Petroleum in bulk Yes Is vessel equipped with D.F. Yes E.S.D. Yes Gy.C. No "Decca Navigator" Sub-Sig.

Have plans been submitted and approved No System of Distribution Two Wire Voltage of supply for Lighting 110

Heating 110 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 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 In 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 Yes Switchboards, where are main switchboards placed Near Generators

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 and arrangement of equaliser switches D.P. Switch and Fuses

and for each outgoing circuit D.P. Change-over Switch and Fuses

Are compartments containing switchboards composed of fire-resisting material or lined as per Rule 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

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 Yes, state maximum fall of pressure between bus bars and any point under maximum load 5.6 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 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.

Electrical Engineers. Date _____

COMPASSES.

Minimum distance between electric generators or motors and standard compass... 13 feet

Minimum distance between electric generators or motors and steering compass... 8 feet

The nearest cables to the compasses are as follows:—

A cable carrying 0.01 Ampères led into feet from standard compass led into feet from steering compass.

A cable carrying 30 Ampères 13 feet from standard compass 8 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 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 _____

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

Plans. Are approved plans forwarded herewith "As Fitted" plan attached If not, state date of approval _____

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

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

A Special Survey has been carried out on the installation of this vessel.
 At this time, modifications and repairs were effected, as detailed on Report
 9. attached

On completion, all circuits examined, the installation tried under full
 working conditions, and all found satisfactory.

The materials and workmanship are good.

FOR THE INFORMATION OF THE COMMITTEE

Noted
10.11.47

Total Capacity of Generators... 44 Kilowatts.

The amount of Fee ... Charged on Reft 9. : When applied for,19.....
 Travelling Expenses (if any) £ : : When received,19.....

B. Daffner
 Surveyor to Lloyd's Register of Shipping.

Committee's Minute GLASGOW 14 OCT 1947

Assigned SEE ACCOMPANYING MACHINERY REPORT

5m. 4. 3. Transfer. (MADE AND PRINTED IN ENGLAND.)
 (The Surveyors are requested not to write on or below the space for Committee's Minute.)



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