

REPORT ON ELECTRICAL EQUIPMENT

(OTHER THAN FOR THE PROPULSION OF THE VESSEL)

Received at London Office.....

Date of writing Report... 10th December 1947 When handed in at Local Office... 15.12.47 Port of... GLASGOW

No. in Survey held at... GRANGEMOUTH Date, First Survey... 22nd May Last Survey... 3rd November 1947 Reg. Book. (Number of Visits... 4)

on the... 'BAHR NAGASH' (EX. L.C.T. 796) Tons { Gross... 397 Net... 228

Built at... NOT KNOWN By whom built... NOT KNOWN Yard No... NOT KNOWN When built... NOT KNOWN

Owners... SABEAN UTILITY CORPORATION LTD Port belonging to... HADDIS ABABA

Electrical Installation fitted by... GRANGEMOUTH DOCKYARD CO. LTD Contract No... When fitted... 1947

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

Have plans been submitted and approved... YES System of Distribution... TWO WIRE Voltage of supply for Lighting... 220

Heating... 220 Power... 220 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... YES 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

... POSITIVE Have machines over 100 kw. been inspected by the Surveyors during manufacture and testing... YES Have certificates of

test for machines under 100 kw. been supplied... ADMIRALTY MACHINES 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... IN ENGINE ROOM 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... YES Is the frame effectually earthed... YES

Is the construction as per Rule... WITH THE EXCEPTION OF... 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... ALL ON SAME FUSES... 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... 100 AMP D.P. SWITCH

... WITH ADMIRALTY PATTERN FUSES

and for each outgoing circuit... 60 AMP D.P. SWITCHES WITH ADMIRALTY PATTERN 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... YES Earth Testing, state means provided... EARTH LAMPS

Switches, Circuit Breakers and Fuses, are they as per Rule... ADMIRALTY PATTERN, 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... YES, are the reversed current

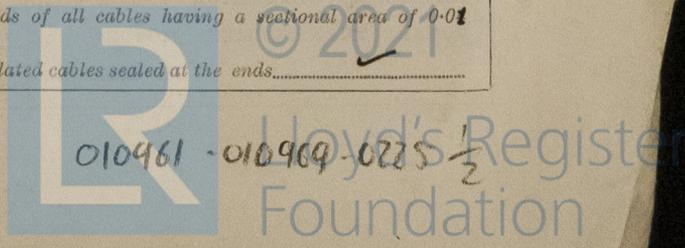
protection devices connected on the pole opposite to the equaliser connection... YES, have they been tested under working conditions, and at what current

did they operate... YES 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... 1.8 Volts, are the ends of all cables having a sectional area of 0.01

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..... EIGHTEEN FEET

Minimum distance between electric generators or motors and steering compass..... ✓

The nearest cables to the compasses are as follows:—

A cable carrying 4.4 Ampères SEVEN feet from standard compass ✓ feet from steering compass.

A cable carrying 11 Ampères LED INTO feet from standard compass ✓ 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 YES If so, state name of vessel T. S. M. V. 'ADULIS'

Plans. Are approved plans forwarded herewith No If not, state date of approval ATTACHED TO 'ADULIS' REPORT

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 installation of this vessel was fitted on board to Admiralty requirements and has been partially refitted at this time in accordance with the approved plans. On completion of this work, the installation was tested under working conditions, and found satisfactory. The quality of materials and workmanship is good. The electrical installation of this vessel as now seen, is in good order and is in my opinion, such as could be accepted for classification by this Society.

Notes 6/2/48 WJ

Total Capacity of Generators 20 Kilowatts.

The amount of Fee (Survey) £ 6 : 0 : 16 DEC 1947
 Fee (REPAIR) £ 4 : 4 :
 Travelling Expenses (if any) £ 1 : 0 :
 When received,19.....

J. M. Gardiner.
 Surveyor to Lloyd's Register of Shipping.

Committee's Minute GLASGOW 16 DEC 1947
 Assigned THE ACCOMPANYING MACHINERY REPORT

501.10—Transfer. (MADE AND PRINTED IN ENGLAND.)
 (The Signatures are requested not to write on or below the space for Committee's Minutes.)



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