

# REPORT ON ELECTRICAL EQUIPMENT.

(OTHER THAN FOR THE PROPULSION OF THE VESSEL)

Received at London Office.....

Date of writing Report... 2<sup>ND</sup> AUGUST 1948... When handed in at Local Office... 19... Port of... GLASGOW  
 No. in Survey held at... PORT GLASGOW... Date, First Survey... 28<sup>TH</sup> APRIL... Last Survey... 26<sup>TH</sup> JULY 1948  
 Reg. Book... 39464... on the... M.V. BRITISH ADVOCATE... Tons { Gross... 8573  
 Net... 4937  
 Built at... PORT GLASGOW... By whom built... MESSRS LITHGOWS LTD... Yard No... 1033... When built... 1948  
 Owners... BRITISH TANKER CO LTD... Port belonging to... LONDON  
 Electrical Installation fitted by... MESSRS SUNDERLAND FORGE & ENGINEERING CO LTD... Contract No... 1033... When fitted... 1948  
 Is vessel fitted for carrying Petroleum in bulk... YES... Is vessel equipped with D.F... YES... E.S.D... YES... Gy.C... YES... RADAR Sub-Stg... YES

Have plans been submitted and approved... YES... System of Distribution... TWO WIRE... 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... ✓... 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... YES... 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... STARBOARD SIDE OF 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... 700 AMP TRIPLE POLE  
 CIRCUIT BREAKER FITTED WITH OVERLOAD AND REVERSE CURRENT TRIPS

and for each outgoing circuit... 300 AMP, 200 AMP, 100 AMP, 60 AMP OR 30 AMP D.P. KNIFE PATTERN SWITCHES  
 WITH 'ZED' TYPE 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... 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... FULL LOAD... 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... 10% to 15% FL 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... 6.1 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



PARTICULARS OF GENERATING PLANT.

## GENERATOR CABLES

### MAIN DISTRIBUTION CABLES.

LIGHTING AND HEATING, ETC., CABLES.

MOTOR CABLES.

ALL IMPORTANT MOTORS TO BE ENUMERATED.	No.	B.H.P.								
TURNING GEAR.	1	7	1	19.052	60	✓	104	152	V.C.	L.C.A.B.
MID. BOAT WINCHES.	2	7.5	1	19.052	65	✓	104	140	V.C.	L.C.B.
AFT BOAT WINCHES.	2	7.5	1	19.052	65	✓	104	212	V.C.	L.C.B.
FEERIG COMPRESSORS	2	4	1	7.064	35	✓	75	32	V.C.	L.C.A.B.
PURIFIERS.	2	2.5	1	7.044	22	✓	31	270	R.	L.C.A.B.
AFT VENT FANS.	2	2.75	1	7.044	24	✓	31	64	R.	L.C.B.
MID. VENT FANS.	2	2	1	7.044	17	✓	31	180	R.	L.C.B.
ENGINE ROOM VENT FAN.	1	1.5	1	7.044	14	✓	31	162	R.	L.C.A.B.
PRIMING PUMP.	1	1.5	1	7.044	14	✓	31	250	R.	L.C.A.B.



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.

P.Pro. THE SUNDERLAND FORGE & ENGINEERING CO. LTD.

Electrical Engineers.

Date 5th August 1948.

J.C. Shanks jun

#### COMPASSES.

Minimum distance between electric generators or motors and standard compass THIRTY-FIVE FEET.

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

The nearest cables to the compasses are as follows:—

A cable carrying 30 Ampères 13 feet from standard compass 7 feet from steering compass.

A cable carrying 23 Ampères LED INTO feet from standard compass LED INTO 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.

LITHGOWS LIMITED.

Builder's Signature.

Date 10th Aug 1948.

D.H. Cunningham Secretary

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 25th MARCH 1948

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 has been fitted on board under Special Survey, tested under working conditions and found satisfactory. The quality of materials and workmanship is good.

Notes. Encl. 9/9/48

Total Capacity of Generators 150 Kilowatts.

The amount of Fee £ 62: 10: 19.

Travelling Expenses (if any) £ 1: 1: 19.

When applied for,

When received.

Surveyor to Lloyd's Register of Shipping.

M. C. Gardiner

Committee's Minute GLASGOW 17 AUG 1948

Assigned SEE ACCOMPANYING MACHINERY REPORT



© 2020

Lloyd's Register Foundation