

# REPORT ON ELECTRICAL EQUIPMENT.

(OTHER THAN FOR THE PROPULSION OF THE VESSEL)

DEC 11 1939

Received at London Office.....

Date of writing Report... 23<sup>RD</sup> NOV. 1939... When handed in at Local Office... 8<sup>TH</sup> Dec. 1939... Port of... BELFAST.

No. in Survey held at... BELFAST... Date, First Survey... 20<sup>th</sup> Apr 1939... Last Survey... 26<sup>th</sup> Nov 1939  
Reg. Book. (Number of Visits... 18...)

36311 on the TWIN SCREW MOTOR VESSEL "WAIOTIRA" Tons { Gross.....  
Net.....

Built at... BELFAST... By whom built... HARLAND & WOLFF LTD. Yard No. 1019 When built... 1939

Owners... SHAW SAVILL & ALBION LTD. Port belonging to... SOUTHAMPTON

Electrical Installation fitted by... HARLAND & WOLFF LTD. Contract No. 1019 When fitted... 1939

Is vessel fitted for carrying Petroleum in bulk... NO 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 DIRECT CURRENT Voltage of supply for Lighting... 220

Heating... 220 Power... 220 Direct or Alternating Current, Lighting... D.C. Power... D.C. If Alternating Current state frequency... = Prime Movers,

has the governing been tested and found efficient when the whole 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

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... 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... MAIN GENERATORS IN MOTOR RM. PORT & STARBOARD AUX. GENERATOR IN

ROOM ON SHELTER DECK, 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 AT AFTER END OF MOTOR ROOM

AUXILIARY SWITCHBOARD IN AUXILIARY GENERATOR ROOM SHELTER DECK.

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 & SLATE, 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... 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. O.L. REVERSE CURRENT

CIRCUIT BREAKERS WITH TIME LIMITS & M.B.O. ALSO TRIPLE POLE SWITCHES.

and for each outgoing circuit... EITHER D.P. O.L. CIRCUIT BREAKERS WITH TIME LIMITS OR SHUNT TRIP OR D.P.Q.B. KNIFE

SWITCHES & FUSES ON BOTH POLES.

Are compartments containing switchboards composed of fire-resisting material or lined as per Rule... YES Instruments on main switchboard... 4

ammeters... 2 voltmeters... 4 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... BY "EARTH INDICATING" 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, are the reversed current protection devices connected on the pole opposite to the equaliser connection YES, have they been tested under working conditions 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 —, state maximum fall of pressure between bus bars and any point under maximum load 7FW.PUMP, 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 exposed ends — with insulating compound — or waterproof insulating tape —. Are all the cable runs in accessible positions, not exposed to drip or accumulation of water or oil, high temperatures or risk of mechanical damage YES, are cables laid under machines or floorplates YES, if so, are they adequately protected YES. Are cables in machinery spaces, galleys, laundries, etc., lead covered L.R. or run in conduit IN LAMP & PAINT RMS. State how the cables are supported and protected ON PERFORATED OR SOLID PROTECTED PLATING & WOOD CASING.

Are all lead sheaths, armouring and conduits effectually bonded and earthed YES. Refrigerated chambers, are the cables and fittings as per Rule YES. Are all cables passing through decks and watertight bulkheads provided with deck tubes or watertight glands YES, where unarmoured cables pass through beams, etc., are the holes effectively bushed YES and with what material LEAD. Alternative Lighting, are the groups of lights in the engine and boiler rooms arranged as per Rule YES. Emergency Supply, state position AUXY. GENERATOR ROOM ON SHELTER DECK. and method of control BY SWITCHBOARD IN AUXY. GENERATOR ROOM. Navigation Lamps, are they separately wired YES controlled by separate double pole switches YES and fuses YES. Are the switches and fuses in a position accessible only to the officers on watch YES, is an automatic indicator fitted YES. Secondary Batteries, are they constructed and fitted as per Rule YES, are they adequately ventilated YES. Fittings, are all fittings on weather decks, in stokeholds and engine rooms and wherever exposed to drip or condensed moisture, weatherproof YES. Are fittings installed where readily combustible materials or inflammable or explosive dust or gases are likely to be present YES, if so, how are they protected —. GASTIGHT GUARDED PENDANTS IN LAMP & PAINT ROOMS and where are the controlling switches fitted LOCALLY, are all fittings suitably ventilated YES, are all fittings and accessories constructed and installed as per Rule YES. Searchlight Lamps, No. of 1, whether fixed or portable PORTABLE, are their fittings as per Rule —. Heating and Cooking, is the general construction as per Rule YES, are the frames effectually earthed YES, are heaters in the accommodation of the convection type YES. Motors, are all motors constructed and installed as per Rule YES and placed in well-ventilated compartments in which inflammable gases cannot accumulate and free from damage from water, steam and oil YES, if situated near unprotected combustible material state minimum distance from same horizontally — and vertically —. Have motors of 100 BHP and over been inspected by the Surveyors during manufacture and testing YES. Have certificates of test for motors under 100 BHP intended for essential services been supplied and the results found as per Rule YES. Control Gear and Resistances, are they constructed and fitted as per Rule YES. Lightning Conductors, where required are they fitted as per Rule —. Ships carrying Oil having a Flash Point less than 150° F. Have all the special requirements of the Rules for such ships been complied with —, are all fuses of the cartridge type — are they of an approved type —. If portable lamps for use in dangerous spaces are supplied, are they of a self-contained battery-fed flameproof type —. Spare Gear, if the vessel is for open sea service have spares been provided as per Rule YES, are they suitably stored in dry situations YES. Insulation Tests, has the insulation resistance of all circuits and apparatus been megger tested and found satisfactory YES.

#### PARTICULARS OF GENERATING PLANT.

| DESCRIPTION OF GENERATOR. | No. of | RATED AT   |        |          |                | DRIVEN BY            | WHERE DRIVEN BY AN INTERNAL COMBUSTION ENGINE. |                      |
|---------------------------|--------|------------|--------|----------|----------------|----------------------|--|----------------------|
|                           |        | Kilowatts. | Volts. | Ampères. | Revs. per Min. |                      | Fuel Used.                                     | Flash Point of Fuel. |
| MAIN ...                  | 4      | 300        | 222    | 1350     | 340            | 6 CYL. DIESEL ENGINE | DIESEL OIL                                     | Above 150° F         |
| AUXILIARY EMERGENCY       | 1      | 25         | 220    | 114      | 775            | 3 CYL. DIESEL ENGINE | "  | "                    |
| ROTARY TRANSFORMER        |        |            |        |          |                |                      |  |                      |



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| DESCRIPTION               | B.H.P. | No. OF MOTORS. | CONDUCTORS   |                                     | COMPOSITION OF STRAND |      | TOTAL MAXIMUM CURRENT. |       | APPROXIMATE LENGTH LEAD RETURN FEET. | INSULATED WITH. | HOW PROTECTED. |
|---------------------------|--------|----------------|--------------|-------------------------------------|-----------------------|------|------------------------|-------|--------------------------------------|-----------------|----------------|
|                           |        |                | No. PER POLE | TOTAL EFFECT AREA PER POLE SQ. INS. | No.                   | DIA. | IN CIRCUIT             | RULE. |                                      |                 |                |
| C.O <sub>2</sub> MACHINES | 160    | 3              | 1            | 1.0000                              | 127                   | .103 | 595.0                  | 595   | 150                                  | RUBBER          | HARD RUBBER    |
| BRINE PUMPS               | 16     | 4              | 1            | 0.0400                              | 19                    | .052 | 62.0                   | 64    | 108                                  | RUBBER          | HARD RUBBER    |
| BRINE PUMP                | 3      | 1              | 1            | 0.0045                              | 7                     | .029 | 13.0                   | 18.2  | 130                                  | RUBBER          | HARD RUBBER    |
| PLUNGER BRINE PUMP        | 3 3/4  | 1              | 1            | 0.0045                              | 7                     | .029 | 15.8                   | 18.2  | 126                                  | RUBBER          | HARD RUBBER    |
| REFRIG. EXH. FAN.         | 3/4    | 1              | 1            | 0.0020                              | 3                     | .029 | 4.0                    | 7.4   | 20                                   | RUBBER          | HARD RUBBER    |
| 20" DIA. REFRIG. FANS     | 2 3/4  | 11             | 1            | 0.0045                              | 7                     | .029 | 11.5                   | 18.2  | 270                                  | RUBBER          | HARD RUBBER    |
| 25" DIA. REFRIG. FANS     | 3 3/4  | 6              | 1            | 0.0045                              | 7                     | .029 | 15.5                   | 18.2  | 270                                  | RUBBER          | HARD RUBBER    |
| 30" DIA. REFRIG. FANS     | 6 1/2  | 7              | 1            | 0.0100                              | 7                     | .044 | 28.0                   | 31    | 130                                  | RUBBER          | HARD RUBBER    |
| 35" DIA. REFRIG. FANS     | 8      | 4              | 1            | 0.0145                              | 7                     | .052 | 32.0                   | 37    | 140                                  | RUBBER          | HARD RUBBER    |
| 15" DIA. REFRIG. FANS     | 1 1/2  | 3              | 1            | 0.0030                              | 3                     | .036 | 7.5                    | 12    | 150                                  | RUBBER          | HARD RUBBER    |
| C.O <sub>2</sub> RECORDER |        | 1              | 1            | 0.0020                              | 3                     | .029 | 2.0                    | 7.4   | 30                                   | RUBBER          | HARD RUBBER    |
| WINDLASS                  | 77     | 1              | 1            | 0.4000                              | 61                    | .093 | 293.0                  | 452   | 290                                  | RUBBER          | HARD RUBBER    |
| WINCHES FORWARD           | 57     | 8              | 1            | 0.2000                              | 37                    | .083 | 222.0                  | 247   | 100                                  | RUBBER          | HARD RUBBER    |
| WINCHES MIDSHIP           | 57     | 3              | 1            | 0.2000                              | 37                    | .083 | 222.0                  | 247   | 130                                  | RUBBER          | HARD RUBBER    |
| WINCHES AFT               | 57     | 9              | 1            | 0.2000                              | 37                    | .083 | 222.0                  | 247   | 100                                  | RUBBER          | HARD RUBBER    |
| STEERING GEAR             | 60     | 2              | 1            | 0.3000                              | 37                    | .103 | 230.0                  | 240   | 230                                  | RUBBER          | HARD RUBBER    |
| HALL MARK MACHINE         | 1      | 1              | 1            | 0.0020                              | 3                     | .029 | 4.0                    | 7.4   | 100                                  | RUBBER          | HARD RUBBER    |



# GENERATOR CABLES.

| DESCRIPTION.                     | KILOWATTS. | CONDUCTORS.               |  | MAXIMUM CURRENT IN AMPERES. |        | APPROX. LENGTH (lead plus return feet). | INSULATED WITH. | HOW PROTECTED.         |
|----------------------------------|------------|---------------------------|--|-----------------------------|--------|---|-----------------|------------------------|
|                                  |            | No. in Parallel Per Pole. | Sectional Area or No. and Dia. of Strands. Sq. ins. or sq. mm. | In the Circuit.             | Rule.  |   |                 |                        |
| MAIN GENERATOR ... ..            | 300        | 3                         | 91/103   | 1350                        | 1363 ✓ | 68                                      | RUBBER          | HARD RUBBER & BRAIDING |
| " " EQUALISER ... ..             |            | 2                         | 91/103   | —                           | 922 ✓  | 68                                      | RUBBER          | HARD RUBBER & BRAIDING |
| AUXILIARY GENERATOR ... ..       | 25         | 1                         | 19/083   | 114                         | 118 ✓  | 45                                      | RUBBER          | HARD RUBBER & BRAIDING |
| ROTARY TRANSFORMER: MOTOR ... .. |            |                           |  |                             |        |   |                 |                        |
| " " GENERATOR ... ..             |            |                           |  |                             |        |   |                 |                        |

## MAIN DISTRIBUTION CABLES.

|   |                     |   |         |       |        |     |        |                        |
|---|---------------------|---|---------|-------|--------|-----|--------|------------------------|
| AUX. SWITCHBOARDS AND SECTION BOARDS ... .. |                     |   |         |       |        |     |        |                        |
| AUX. SWITCHBOARD                            |                     | 2 | 37/083  | 270   | 368 ✓  | 233 | RUBBER | HARD RUBBER & BRAIDING |
| MASTERBOARD "A"                             | COOKING             | 1 | 19/064  | 36.8  | 63 ✓   | 570 | RUBBER | HARD RUBBER            |
|   | HEATING             | 1 | 61/093  | 272.5 | 288 ✓  | 450 | RUBBER | HARD RUBBER            |
|   | LIGHTING            | 1 | 19/044  | 44.1  | 53 ✓   | 150 | RUBBER | HARD RUBBER            |
|   | COOKING             | 1 | 19/064  | 40.5  | 83 ✓   | 450 | RUBBER | HARD RUBBER            |
| MASTERBOARD "B"                             | HEATING             | 1 | 37/083  | 154.7 | 184 ✓  | 270 | RUBBER | HARD RUBBER            |
|   | LIGHTING            | 1 | 7/064   | 37.7  | 46 ✓   | 75  | RUBBER | HARD RUBBER            |
| MASTERBOARD "C" WINCHES                     |                     | 2 | 61/093  | 370   | 376 ✓  | 270 | RUBBER | HARD RUBBER            |
| MASTERBOARD "D" WINCHES                     |                     | 2 | 61/093  | 293   | 288 ✓  | 675 | RUBBER | HARD RUBBER            |
| MASTERBOARD "E" WINCHES                     |                     | 2 | 37/103  | 296   | 480 ✓  | 600 | RUBBER | HARD RUBBER            |
| MASTERBOARD "F" & "H"                       | HEATING             | 1 | 37/093  | 212   | 214 ✓  | 420 | RUBBER | HARD RUBBER            |
|   | WINCHES             | 3 | 61/103  | 666   | 996 ✓  | 370 | RUBBER | HARD RUBBER            |
| MASTERBOARD "G"                             | C.O.2 MACHINES      | 3 | 127/103 | 1785  | 1785 ✓ | 170 | RUBBER | HARD RUBBER            |
|   | REFRIG. AUXILIARIES | 2 | 91/103  | 864   | 922 ✓  | 180 | RUBBER | HARD RUBBER            |

## LIGHTING AND HEATING, ETC., CABLES.

|   |   |       |          |       |         |        |                             |
|---|---|-------|----------|-------|---------|--------|-----------------------------|
| WIRELESS ... ..                                     | 1 | 7/044 | 15       | 31 ✓  | 600     | RUBBER | HARD RUBBER & BRAIDING      |
| NAVIGATION LIGHTS ... ..                            |   |       |          |       |         |        |                             |
| LIGHTING AND HEATING ... ..                         |   |       |          |       |         |        |                             |
| MASTHEAD LIGHT                                      | 1 | 3/029 | 0.18     | 7.8 ✓ | 550     | RUBBER | L.S.P.B. UP MAST            |
| SIDE LIGHTS   | 1 | 3/029 | 0.27     | 7.8 ✓ | 80      | RUBBER | LEAD COVERED                |
| COMPASS LIGHTS                                      | 1 | 3/029 | 0.18     | 7.8 ✓ | 24      | RUBBER | LEAD COVERED                |
| CARGO LIGHTING FORD.                                | 1 | 7/052 | 16       | 37 ✓  | 530     | RUBBER | HARD RUBBER                 |
| CARGO LIGHTING MIDSHIP                              | 1 | 7/036 | 14       | 24 ✓  | 72      | RUBBER | HARD RUBBER                 |
| CARGO LIGHTING AFT                                  | 1 | 7/064 | 16       | 46 ✓  | 510     | RUBBER | HARD RUBBER                 |
| 600 WATT. 750 WATT. 1000 WATT. & 1500 WATT. HEATERS | 1 | 3/029 | 2.7/6.8  | 7.8 ✓ | VARIOUS | RUBBER | HARD RUBBER OR LEAD COVERED |
| 2000 WATT. & 2500 WATT. HEATERS                     | 1 | 3/036 | 2.1/11.3 | 12 ✓  | "       | RUBBER | HARD RUBBER OR LEAD COVERED |

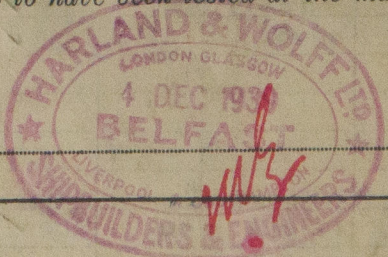
## MOTOR CABLES.

| ALL IMPORTANT MOTORS TO BE ENUMERATED. | No. | B.H.P. |   |        |       |        |     |                               |
|--|-----|--------|---|--------|-------|--------|-----|-------------------------------|
| BILGE PUMPS PORT & STARBOARD           | 2   | 13.0   | 1 | 19/052 | 51.0  | 64 ✓   | 270 | RUBBER HARD RUBBER & BRAIDING |
| MANOEUVRING AIR COMPRS.                | 2   | 100.0  | 1 | 91/093 | 380.0 | 384 ✓  | 324 | RUBBER HARD RUBBER            |
| MAIN F.W. PUMPS                        | 2   | 26.0   | 1 | 19/083 | 100.0 | 118 ✓  | 330 | RUBBER HARD RUBBER            |
| MAIN S.W. PUMPS                        | 3   | 36.0   | 1 | 37/072 | 137.0 | 158 ✓  | 330 | RUBBER HARD RUBBER            |
| SANITARY PUMP                          | 1   | 22.0   | 1 | 19/072 | 86.0  | 97 ✓   | 340 | RUBBER HARD RUBBER            |
| GENERAL SERVICE PUMP                   | 1   | 24.0   | 1 | 19/072 | 93.0  | 97 ✓   | 336 | RUBBER HARD RUBBER            |
| LUB. OIL PUMPS                         | 3   | 86.0   | 1 | 61/103 | 323.0 | 332 ✓  | 216 | RUBBER HARD RUBBER            |
| TURNING GEAR MOTORS                    | 2   | 15.0   | 1 | 19/052 | 58.5  | 64 ✓   | 156 | RUBBER HARD RUBBER            |
| FUEL OIL TRANSFER PUMPS                | 2   | 12.0   | 1 | 19/044 | 47.0  | 53 ✓   | 270 | RUBBER HARD RUBBER            |
| BALLAST PUMP                           | 1   | 26.0   | 1 | 19/083 | 100.0 | 118 ✓  | 345 | RUBBER HARD RUBBER            |
| REFRIG. SW. CIRC. PUMPS                | 2   | 26.0   | 1 | 19/083 | 100.0 | 118 ✓  | 405 | RUBBER HARD RUBBER            |
| MOTOR RM. VENT FANS                    | 5   | 1.75   | 1 | 7/029  | 8.0   | 18.2 ✓ | 285 | RUBBER HARD RUBBER            |
| ENG'G WORKSHOP VENT FAN 17 3/4 DIA.    | 1   | 1.0    | 1 | 3/036  | 5.0   | 12 ✓   | 279 | RUBBER HARD RUBBER            |
| REFRIG. RM. VENT FAN                   | 1   | 2.0    | 1 | 3/036  | 9.0   | 12 ✓   | 180 | RUBBER HARD RUBBER            |
| VAPOUR EXTRACTION FANS 12 1/2 DIA.     | 2   | 4.5    | 1 | 7/036  | 19.0  | 24 ✓   | 264 | RUBBER HARD RUBBER            |
| 6 TON HOISTS MOTOR RM.                 | 2   | 5.0    | 1 | 7/044  | 20.0  | 31 ✓   | 65  | RUBBER HARD RUBBER            |
| 9 1/2 LATHE WORKSHOP                   | 1   | 5.0    | 1 | 7/036  | 20.0  | 24 ✓   | 60  | RUBBER HARD RUBBER            |
| 6 1/2 LATHE WORKSHOP                   | 1   | 2.0    | 1 | 3/036  | 9.0   | 12 ✓   | 40  | RUBBER HARD RUBBER            |
| DRILLING MACHINE WORKSHOP              | 1   | 2.0    | 1 | 3/036  | 9.0   | 12 ✓   | 20  | RUBBER HARD RUBBER            |
| GRINDING MACHINE WORKSHOP              | 1   | 2.0    | 1 | 3/036  | 9.0   | 12 ✓   | 50  | RUBBER HARD RUBBER            |
| PURIFIED F.O. PUMPS                    | 2   | 1.75   | 1 | 7/029  | 8.0   | 18.2 ✓ | 85  | RUBBER HARD RUBBER            |
| F.O. PURIFIERS                         | 3   | 2.5    | 1 | 7/029  | 11.0  | 18.2 ✓ | 80  | RUBBER HARD RUBBER            |
| L.O. PURIFIER                          | 1   | 2.5    | 1 | 7/029  | 11.0  | 18.2 ✓ | 88  | RUBBER HARD RUBBER            |
| AUX. F.W. CIRC. PUMP                   | 1   | 5.0    | 1 | 7/036  | 21.0  | 24 ✓   | 60  | RUBBER HARD RUBBER            |
| AUX. S.W. CIRC. PUMP                   | 1   | 8.0    | 1 | 7/052  | 32.5  | 37 ✓   | 60  | RUBBER HARD RUBBER            |
| MALONE PNEUMERCATOR COMPRESSOR         | 1   |        | 1 | 3/029  | 4.0   | 7.8 ✓  | 30  | RUBBER HARD RUBBER            |
| F.W. PUMP                              | 1   | 7.0    | 1 | 7/044  | 28.0  | 31 ✓   | 240 | RUBBER HARD RUBBER            |
| BOILER BLOWER                          | 1   | 2.0    | 1 | 3/036  | 9.0   | 12 ✓   | 66  | RUBBER HARD RUBBER            |
| BOILER FEED PUMP                       | 1   | 2.5    | 1 | 7/029  | 10.6  | 18.2 ✓ | 240 | RUBBER HARD RUBBER            |
| GALLEY RANGE BLOWERS                   | 2   | 0.3    | 1 | 3/029  | 2.0   | 7.8 ✓  | 165 | RUBBER HARD RUBBER            |

NOTE:- ALL WIRING & CABLES IN THE VICINITY OF THE WHEEL HOUSE & WIRELESS ROOM IN LEAD COVERED CABLES.



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 25 FEET TO 6YRD MOTOR-GENERATOR

Minimum distance between electric generators or motors and steering compass 22 FEET TO 6YRD MOTOR-GENERATOR

The nearest cables to the compasses are as follows:—

A cable carrying 13 Ampères 1 feet from standard compass 1 feet from steering compass.

A cable carrying 0.18 Ampères 1 feet from standard compass 1 feet from steering compass.

A cable carrying 0.18 Ampères 1 feet from standard compass 1 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 ALL course in the case of the standard compass, and ALL degrees on ALL 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

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 in accordance with the approved plans, tested under full working conditions and found satisfactory. The materials and workmanship are good.*

*Noted  
L.Y.  
11/12/39*

Total Capacity of Generators 1225 Kilowatts.

The amount of Fee ... £ 75 : 12 : 6 When applied for, 8/12/39  
{ 1/2 due Belfast - £ 37. 16. 3 }  
{ 1/2 due Liverpool - £ 37. 16. 3 }  
Travelling Expenses (if any) £ : : When received, 16/11/40

*H. Haffner*  
Surveyor to Lloyd's Register of Shipping.

Committee's Minute

TUE 12 DEC 1939

Assigned

*See Rel. 12500*