

REPORT ON ELECTRIC FITTINGS.

(OTHER THAN FOR THE PROPULSION OF THE VESSEL)

Received at London Office

28 DEC 1929

of writing Report 28th Nov 1929 When handed in at Local Office 28th Nov. 1929 Port of NAGASAKI.

in Survey held at NAGASAKI. Date, First Survey 20th Aug. 29 Last Survey 31st Oct. 1929.

on the Steel Twin Screw Motor Vessel "Buenos Aires Maru".

Tons { Gross 9,625.65
Net 5,854.27
When built 1929.

at Nagasaki. By whom built Mitsubishi Zosen Kaisha Yard No. 456.

ers Osaka Shosen Kabushiki Kaisha. Port belonging to Osaka.

Electric Light Installation fitted by Nagasaki Works, Mitsubishi Zosen Kaisha, Ltd., Contract No. When fitted 1929.

System of Distribution Two wire system.

Pressure of supply for Lighting 110 volts, Heating 225 volts, Power 225 volts.

Current or Alternating Current, Lighting Direct current. Power Direct current.

be Alternating current system, state frequency of periods per second /

the Automatic Governor been tested and found efficient when the whole load is suddenly thrown on or off Yes

generators, do they comply with the requirements regarding rating Yes, are they compound wound Yes

are they over compounded 5 per cent. Yes, if not compound wound state distance between each generator /

or more than one generator is fitted are they arranged to run in parallel Yes, is an adjustable regulating resistance fitted in

with each shunt field Yes

terminals accessible, clearly marked, and furnished with sockets Yes, are they so spaced or shielded that they cannot be accidentally earthed,

circuited, or touched Yes Are the lubricating arrangements of the generators as per Rule Yes

Location of Generators In machinery space.

ventilation in way of the generators satisfactory Yes, are they clear of all inflammable material Yes

located near unprotected woodwork or other combustible material, state distance of same horizontally from or vertically above the generators

/ and /, are the generators protected from mechanical injury and damage from water, steam or oil Yes

air axes of rotation fore and aft Yes

ing, are the bedplates and frames of the generating plant efficiently earthed Yes are the prime movers and

respective generators in metallic contact Yes

Switch Boards, where placed In machinery space at fore end on 3rd Deck level.

If the generators and main switchboard are not placed in the same compartment, is each generator provided with

on each insulated pole as near as possible to the terminals of the generator, additional to that provided on the main switchboard /

boards, are they placed in accessible positions, free from inflammable gases and acid fumes Yes

protected from mechanical injury and damage from water, steam or oil Yes, if situated near unprotected

work or other combustible material, state distance of same horizontally from or vertically above the switchboards / and /

constructed wholly of durable, non-ignitable non-absorbent materials Yes, is all insulation of high dielectric strength and of

ently high insulation resistance Yes, if semi-insulating material is used, are all conducting parts insulated from the slab

ica or micanite or other non-hygroscopic insulating material, and the slab similarly insulated from its framework Yes

the frame effectively earthed Yes Are the fittings as per Rule regarding:— spacing or shielding of live parts

Yes, accessibility of all parts Yes, absence of fuses on back of board Yes, proportion of omnibus

Yes, individual fuses to voltmeter, pilot or earth lamp Yes, connections of switches Yes

Switchgear, description of switchgear for each generator and each outgoing circuit, and arrangement of equalizer switches A double pole circuit

er with overload trip, time lag device and reverse current trip and a single pole equalizer

h interlocked with the circuit breaker as per Rule, and a double pole knife switch for

generator: A double pole circuit breaker with overload trip and time lag device or a

single pole knife switch and an enclosed fuse on each pole for each out-going circuit.

instruments on main switchboard 8 ammeters 4 voltmeters / synchronising device for paralleling purposes.

Testing, state what means are provided at the main switchboard for indicating the state of the insulation of the system By lamp.

as, Circuit Breakers and Fusible Cut-outs, do these comply with the requirements of the Rules Yes

Boxes Section and Distribution Boards, is the construction, protection, insulation, material, and position of these as per rule Yes



© 2021

Lloyd's Register Foundation

008679-008690-025674

If I find that the following are suppressors, are they of a type approved by the Home Office

| MOTOR CONDUCTORS. | | | | | | | | | |
|-------------------|---------------------------|----------------|--|-----------------------------|-----------|---------------------------------|--|----------------|----------------|
| Ref. No. | DESCRIPTION. | No. of Motors. | Effective Area of each Conductor. Sq. Ins. | COMPOSITION OF STRAND. | | Total Maximum Current. Amperes. | Approximate Length. (Lead and Return.) Feet. | Insulated with | HOW PROTECTED. |
| | | | | No. | Diameter. | | | | |
| | BALLAST PUMP | | | | | | | | |
| | MAIN BILGE LINE PUMPS ... | | | | | | | | |
| | GENERAL SERVICE PUMP ... | | | PLEASE SEE SEPARATE SHEETS. | | | | | |
| | EMERGENCY BILGE PUMP ... | | | | | | | | |
| | SANITARY PUMP | | | | | | | | |
| | CIRC. SEA WATER PUMPS ... | | | | | | | | |
| | CIRC. FRESH WATER PUMPS | | | | | | | | |
| | AIR COMPRESSOR | | | | | | | | |
| | FRESH WATER PUMP | | | | | | | | |
| | ENGINE TURNING GEAR ... | | | | | | | | |
| | ENGINE REVERSING GEAR ... | | | | | | | | |
| | LUBRICATING OIL PUMPS ... | | | | | | | | |
| | OIL FUEL TRANSFER PUMP | | | | | | | | |
| | WINDLASS | | | | | | | | |
| | WINCHES, FORWARD | | | | | | | | |
| | WINCHES, AFT | | | | | | | | |
| | STEERING GEAR— | | | | | | | | |
| | (a) MOTOR GENERATOR ... | | | | | | | | |
| | (b) MAIN MOTOR | | | | | | | | |
| | WORKSHOP MOTOR | | | | | | | | |
| | VENTILATING FANS | | | | | | | | |

Cables: Single.
Fall of Pres
Cable Socket
Yes
Paper Insula
insulating compo
Cable Runs.
steam pipes, up
Support and
galvaniz
If cables are
separate groove
Refrigerate
Joints in Ca
Watertight
Yes
Bushes in I
bushed
Earthing C
except f
Alternative
Emergency
Navigation
are the swite
has each nav
Secondary
Fittings, a
are any fitti
protec
are any fitti
where are
Searchlig
Arc Lam
Motors,
are the bre
inflamm
are they p
if situated
Total
ent
Control
Lightnib
Ships c
section as
If portat

All Conductors are of annealed copper conforming to British Standard Specification No. 7.
The Insulated Conductors are guaranteed to withstand the immersion and resistance tests specified in the Rules.
The foregoing is a correct description.

J. G. Motora Electrical Engineers. Date 6/12/29

COMPASSES.

Distance between electric generators or motors and standard compass 12 feet from gyro pilot motor.
Distance between electric generators or motors and steering compass 3.5 feet from gyro pilot motor.
The nearest cables to the compasses are as follows :—
A cable carrying 0.2 Amperes 1 feet from standard compass 1 feet from steering compass.
A cable carrying 2.5 Amperes 12 feet from standard compass 3.5 feet from steering compass.
A cable carrying / Amperes / 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 No degrees on Any and every course in the case of the standard compass, and / degrees on / course in the case of the steering compass.

J. G. Motora Builder's Signature. Date 6/12/29

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

General Remarks (State quality of workmanship, opinions as to class, &c.)

The materials and workmanship are good and the installation has been fitted in accordance with the Rules, tested under working conditions and found satisfactory.
Plans sent under separate cover of:- Wiring diagram (2 sheets).

It is submitted that
this matter is dealt with
THE RECORD. Elec. Light
24/1/30

Total Capacity of Generators 760 Kilowatts.

The amount of Fee ... £ 510:30 : When applied for, 5. 11. 29
Travelling Expenses (if any) £ : When received, 18. 11. 29

Committee's Minute TUE 7 JAN 1930

Assigned

Elec Light

G. G. Anderson
Surveyor to Lloyd's Register of Shipping.

Rpt. 9a.

Port of NAGASAKI.

Continuation of Report No. 1701. dated 28th Nov. 1929. on the

Steel Twin Screw Motor Vessel "BUENOS AIRES MARU".

Lighting and Heating Conductors.

| Ref. No. | Description. | No. of Cond. | Effective Area of each Cond. Sq. Ins. | Composition of Strand No. | Total Maximum Current Amperes | Approximate Length (L & R) ft. | Insulated with. | How Protected. |
|----------|-------------------------------|--------------|---------------------------------------|---------------------------|-------------------------------|--------------------------------|-----------------|----------------|
| 1 | No. 3 Main Generator. | 1 | .00713 | 7 | .036 | 1022 | 65 Rubber | L.C.A. |
| 4 | Equalizer for No. 3 Main Gen. | 1 | .007985 | 127 | .104 | 130 | " | " |
| 2 | Gen. side No. 2 35KW Mot-Gen. | 1 | .007 | 7 | .036 | 48 | " | " |
| 3 | " | 2 | .60493 | 91 | .092 | 318 | 96 | " |
| 4 | Equalizer for Gen. of M-G. | 1 | " | 91 | " | 48 | " | " |
| 5 | Motor side No. 2 35KW M-G. | 2 | .40551 | 61 | " | 210 | 90 | " |
| 71 | No. 1 Submain Board. | 2 | .06 | 19 | .064 | 78.9 | 136 | " |
| 72 | No. 1 Distribution Board | 2 | .00713 | 7 | .036 | 20 | 4 | L.C. |
| 73 | No. 2 " " " | 2 | " | " | " | 13.9 | 126 | " |
| 74 | No. 2 " " " | 2 | " | " | " | 12 | 144 | " |
| 75 | No. 4 " " " | 2 | " | " | " | 16.2 | 4 | " |
| 76 | No. 5 " " " | 2 | " | " | " | 16.8 | 4 | " |
| 77 | No. 2 Submain Board. | 2 | .06112 | 19 | .064 | 55.4 | 138 | L.C.A. |
| 78 | No. 6 Distribution Board. | 2 | .00701 | 7 | .036 | 17.6 | 4 | L.C. |
| 79 | No. 7 " " " | 2 | " | " | " | 10.4 | 270 | L.C.A. |
| 80 | No. 8 " " " | 2 | .00322 | 1 | .064 | 8.2 | " | " |
| 81 | No. 9 " " " | 2 | .01267 | 7 | .048 | 29.2 | 162 | L.C. |
| 82 | No. 3 Submain Board. | 2 | " | " | " | 25.2 | 168 | L.C.A. |
| 83 | No. 10 Distribution Board. | 2 | .00322 | 1 | .064 | 8.9 | 186 | " |
| 84 | No. 11 " " " | 2 | .00713 | 7 | .036 | 6 | 446 | " |
| 85 | No. 12 " " " | 2 | " | " | " | 10.3 | 300 | " |
| 86 | No. 4 Submain Board. | 2 | .06112 | 19 | .064 | 73.7 | 138 | " |
| 87 | No. 13 Distribution Board. | 2 | .00713 | 7 | .036 | 14 | 218 | " |
| 88 | No. 14 " " " | 4 | .00322 | 1 | .064 | 12.6 | 218 | " |
| 89 | No. 15 " " " | 2 | " | 1 | " | 8.2 | 110 | L.C. |
| 90 | No. 16 " " " | 2 | .00713 | 7 | .036 | 21.1 | 4 | " |
| 91 | No. 17 " " " | 4 | .00322 | 1 | .064 | 17.8 | 272 | L.C.A. |
| 92 | No. 5 Submain Board. | 2 | .06112 | 19 | " | 67.9 | 160 | " |
| 93 | No. 18 Distribution Board. | 2 | .00713 | 7 | .036 | 11.1 | 130 | " |
| 94 | Flash light for whistle. | 2 | " | " | " | 5.2 | 117 | L.C. |
| 95 | " " " | 2 | " | " | " | 5 | 335 | L.C.A. |
| 96 | No. 19 Distribution Board. | 2 | .00322 | 1 | .064 | 10.6 | 4 | L.C. |
| 97 | No. 20 " " " | 2 | .00713 | 7 | .036 | 20.4 | 4 | " |
| 98 | No. 21 " " " | 2 | " | " | " | 15.7 | 4 | L.C.A. |
| 99 | No. 22 " " " | 2 | " | " | " | 10.1 | 405 | " |
| 100 | No. 6 Submain Board. | 2 | .02252 | 7 | .064 | 39 | 124 | " |
| 101 | No. 23 Distribution Board. | 2 | .00713 | 7 | .036 | 14 | 2 | " |
| 102 | No. 24 " " " | 2 | " | " | " | 20 | 2 | " |
| 103 | Engine room Cargo lamp. | 2 | .00181 | 1 | .048 | 5 | 38 | " |
| 104 | " " " " | 2 | .00475 | 168 | .006 | 5 | 40 | H.B.F.C. |
| 105 | " " Bus-bar lamp. | 2 | .00181 | 1 | .048 | 1.2 | 106 | L.C.A. |
| 106 | No. 7 Submain Board. | 2 | .01267 | 7 | " | 24.4 | 225 | " |
| 107 | Cargo lamp for No. 1 Hatch. | 2 | .00322 | 1 | .064 | 4.8 | 40 | " |
| 108 | " " " No. 2 " | 2 | " | 1 | " | " | 62 | " |
| 109 | " " " fore mast. | 2 | " | 1 | " | 10 | 38 | " |
| 110 | " " " " | 2 | .00475 | 168 | .006 | 5 | 65 | H.B.F.C. |
| 111 | " " for No. 3 Hatch. | 2 | .00713 | 7 | .036 | 4.8 | 264 | L.C.A. |
| 112 | " " " " | 2 | .00475 | 168 | .006 | 2.4 | 72 | H.B.F.C. |
| 113 | No. 8 Submain Board. | 2 | .01267 | 7 | .048 | 19.6 | 400 | L.C.A. |
| 114 | Cargo lamp for No. 4 Hatch. | 2 | .00322 | 1 | .064 | 4.8 | 50 | " |
| 115 | " " " " | 2 | .00475 | 168 | .006 | 2.4 | 82 | H.B.F.C. |
| 116 | " " for No. 5 Hatch. | 2 | .00322 | 1 | .064 | 4.8 | 48 | L.C.A. |
| 117 | " " " main mast. | 2 | " | 1 | " | 10 | 46 | " |
| 118 | " " " " | 2 | .00475 | 168 | .006 | 5 | 65 | H.B.F.C. |
| 119 | Navigation lamp. | 2 | .00713 | 7 | .036 | 3.2 | 291 | L.C.A. |
| 120 | Fore mast head lamp. | 2 | .00181 | 1 | .048 | 0.6 | 491 | " |
| 121 | Main mast head lamp. | 2 | " | 1 | " | " | 795 | " |
| 122 | Starboard side lamp. | 2 | " | 1 | " | " | 177 | " |
| 123 | " " " " | 2 | .00172 | 61 | .006 | " | 3 | H.B.F.C. |
| 124 | Port side lamp. | 2 | .00181 | 1 | .048 | " | 169 | L.C.A. |
| 125 | " " " " | 2 | .00172 | 61 | .006 | " | 3 | H.B.F.C. |
| 126 | Stern lamp. | 2 | .00181 | 1 | .048 | " | 824 | L.C.A. |
| 127 | No. 9 Submain Board. | 2 | .03438 | 19 | " | 49.2 | 138 | " |
| 128 | No. 25 Distribution Board. | 2 | .00713 | 7 | .036 | 15.6 | 218 | " |
| 129 | No. 26 " " " | 4 | .00322 | 1 | .064 | 13.2 | 218 | L.C.A. |
| 130 | No. 27 " " " | 2 | " | 1 | " | 10 | 4 | L.C. |
| 131 | No. 28 " " " | 2 | " | 1 | " | 10.4 | 272 | L.C.A. |
| 132 | No. 10 Submain Board. | 2 | .01267 | 7 | .048 | 19.6 | 148 | " |
| 133 | No. 29 Distribution Board. | 2 | .00713 | 7 | .036 | 16.4 | 4 | L.C. |
| 134 | No. 30 " " " | 2 | .00322 | 1 | .064 | 3.2 | 606 | L.C.A. |
| 135 | Main Dist. Board for Heater. | 2 | .18598 | 37 | .08 | 145.45 | 136 | " |
| 136 | No. 11 Submain Board. | 2 | .02252 | 7 | .064 | 36.36 | 4 | " |
| 137 | Heater (Social hall starbd). | 4 | .00181 | 1 | .048 | 9.1 | 160 | H.B. |
| 138 | No. 12 Submain Board. | 2 | .002252 | 7 | .064 | 36.36 | 4 | L.C.A. |
| 139 | Heater (Social hall port). | 4 | .00181 | 1 | .048 | 9.1 | 130 | H.B. |
| 140 | No. 13 Submain Board. | 2 | .03054 | 30 | .036 | 45.46 | 126 | L.C. |
| 141 | Imitation fire. | 6 | .00181 | 1 | .048 | 18.2 | 84 | H.B. |
| 142 | Heater (Smoke room starbd) | 4 | " | 1 | " | 9.1 | 156 | " |
| 143 | No. 14 Submain Board. | 2 | .01267 | 7 | " | 27.27 | 126 | L.C. |
| 144 | Heater (Smok. room port) | 4 | .00181 | 1 | " | 9.1 | 130 | H.B. |

L.C.A. - Lead covered & armoured.
L.C. - Lead covered.
H.B.F.C. - Hemp braided flex cord.
H.B. - Hemp braided.

© 2021
Lloyd's Register
Foundation

Steel Twin Screw Motor Vessel "BUENOS AIRES MARU".

Motor Conductors.

| Ref. No. | Description. | No. of Motors | Effective Area of each Cond. Sq. Ins. | Composition of Strand | | Total Maximum Current Amperes | Approximate Length (L & R) ft. | Insulated with | How Protected. |
|----------|----------------------------------|---------------|---------------------------------------|-----------------------|------|-------------------------------|--------------------------------|----------------|--------------------|
| | | | | No. | Dia. | | | | |
| 6 | No.1 Aux. Switchboard. | 9 | .60493 | 91 | .092 | 793 | 520 | Rubber | L.C.A. |
| 7 | Windlass motor. | 1 | .40551 | 61 | " | 264 | 240 | " | " |
| 8 | No.7 winch motor. | 1 | .11903 | 37 | .064 | 120 | 350 | " | " |
| 9 | No.2 Aux. Switchboard. | 6 | .40551 | 61 | .092 | 519 | 460 | " | " |
| 10 | No.9 winch motor | 1 | .11903 | 37 | .064 | 120 | 80 | " | " |
| 11 | Mooring winch motor | 1 | .18598 | 37 | .08 | 172 | 190 | " | " |
| 12 | No.1 Steering motor | 2 | .11903 | 37 | .064 | 138 | 650 | " | " |
| 13 | Junct. box for laundry machy &c. | 1 | .03438 | 19 | .048 | 45 | 550 | " | " |
| 14 | Washing machine | 1 | .00713 | 7 | .036 | 13.5 | 38 | " | " |
| 15 | Hadro extractor. | 1 | " | 7 | " | 20 | 50 | " | " |
| 16 | Electric iron &c. | 1 | " | 7 | " | 11.5 | 57 | " | " |
| 17 | Junct. box for Ref. machine. | | .60493 | 91 | .092 | 320 | 160 | " | " |
| 18 | No.2 Ref. comp. motor | 2 | .18598 | 37 | .08 | 173 | 70 | " | " |
| 19 | No.2 Brine pump motor | 2 | .01267 | 7 | .048 | 23 | 90 | " | " |
| 20 | 3 HP Odinance fan motor | 1 | .00713 | 7 | .036 | 13.5 | 150 | " | " |
| 21 | .35 HP " " " | 1 | " | 7 | " | 1.8 | 140 | " | " |
| 22 | Junct. box for Vent fan motor | | .02252 | 7 | .064 | 36.8 | 150 | " | " |
| 23 | No.3 General vent. fan motor | 3 | .00713 | 7 | .036 | 9.2 | 280 | " | " |
| 24 | Switchboard for W. tel. | | " | 7 | " | 16 | 220 | " | " |
| 25 | Secondary battery. | | " | 7 | " | 16 | 16 | " | " |
| 26 | Motor side, 2 KVA. M-alt. | 1 | " | 7 | " | 15 | 150 | " | L.C. |
| 27 | Gene. side " " | 1 | .01267 | 7 | .048 | 10 | 150 | " | L.C.A. |
| 28 | Motor side, 1/2 KVA. M-alt. | 1 | .00713 | 7 | .036 | 16 | 160 | " | " |
| 29 | Gene. side, " " | 1 | " | 7 | " | 5 | 160 | " | " |
| 30 | Junct. box for gyro-comp. | | " | 7 | " | 6.4 | 230 | " | " |
| 31 | Fresh W. Cir. Pump M. Gyro-Comp. | 1 | .00322 | 1 | .064 | 1.4 | 40 | " | L.C. |
| 32 | Motor alternator, Gyro Comp. | 1 | " | 1 | " | 5 | 40 | " | L.C.A. |
| 33 | Fresh hot W. Cir P.M. carolif. | 1 | .00713 | 7 | .036 | 3.45 | 140 | " | " |
| 34 | Junct. box, Cooking Apparatus. | | .11903 | 37 | .064 | 64.86 | 140 | " | " |
| 35 | Hobert Mixer. | 1 | .00713 | 7 | .036 | 5.6 | 90 | " | " |
| 36 | No.2 Ord. fan M. Galley Exh. | 2 | " | 7 | " | 9.2 | 40 | " | " |
| 37 | No.1 cooking fan motor. | 1 | " | 7 | " | 4.58 | 16 | " | " |
| 38 | Baker's oven. | | .06112 | 19 | .064 | 40.9 | 60 | " | " |
| 39 | Junct. box for cooking app. | | .01267 | 7 | .048 | 28 | 140 | " | " |
| 40 | Baggage lift. | 1 | .00713 | 7 | .036 | 11 | 30 | " | " |
| 41 | Tofu making motor. | 1 | " | 7 | " | 5.9 | 80 | " | " |
| 42 | Potato peeler. | 1 | " | 7 | " | 2.4 | 10 | " | " |
| 43 | Toaster. | | " | 7 | " | 17 | 130 | " | " |
| 44 | Cocktail mixer. | 1 | .00322 | 1 | .064 | 1 | 400 | " | " |
| 45 | Aut. egg boiler. | | .00713 | 7 | .036 | 8 | 40 | " | " |
| 46 | No.3 Aux. switchboard. tor. | 1 | .60493 | 91 | .092 | 670 | 110 | " | L.C. |
| 47 | Fuel oil service Pump M. | 1 | .00713 | 7 | .036 | 6.2 | 180 | " | L.C.A. Conductors? |
| 48 | No.1 Lub. oil purifier. | 2 | " | 7 | " | 12.3 | 280 | " | " |
| 49 | Fire & Sanitary Pump motor. | 1 | .18598 | 37 | .08 | 137 | 220 | " | " |
| 50 | Junct. box for F.O. purifier. | | .02252 | 7 | .064 | 36.9 | 150 | " | " |
| 51 | No.3 Fuel oil purifier. | 3 | .00713 | 7 | .036 | 12.3 | 40 | " | " |
| 52 | No.3 Aux. switchboard. | | 1.07985 | 127 | .104 | 610 | 110 | " | " |
| 53 | No.2 Jacket cooling W.P. | 2 | .40551 | 61 | .092 | 190 | 140 | " | " |
| 54 | No.2 piston cooling W.P. | 2 | .11903 | 37 | .064 | 109 | 120 | " | " |
| 55 | No.2 Lub. oil pump motor. | 2 | .18598 | 37 | .08 | 128 | 60 | " | " |
| 56 | F.O. transfer Pump for purifier. | 1 | .00713 | 7 | .036 | 11 | 160 | " | " |
| 57 | Lub. oil shifting P.M. | 1 | " | 7 | " | 6.2 | 350 | " | " |
| 58 | No.2 F.O. shift P.M. | 2 | .11903 | 37 | .064 | 97 | 76 | " | " |
| 59 | No.2 Bilge pump motor. | 2 | .03438 | 19 | .048 | 44 | 160 | " | " |
| 60 | Fire & general service P.M. | 1 | .18598 | 37 | .08 | 137 | 250 | " | " |
| 61 | Hot sanitary pump motor | 1 | .06112 | 19 | .064 | 62 | 220 | " | " |
| 62 | No.2 Fresh water Pump M. | 2 | .01267 | 7 | .048 | 30 | 300 | " | " |
| 63 | No.1 Turbo blower motor. | 2 | .60493 | 91 | .092 | 1250 | 90 | " | " |
| 64 | No.2 Aux. air comp. motor. | 2 | " | " | " | 745 | 260 | " | " |
| 65 | Work shop motor. | 1 | .00713 | 7 | .036 | 22 | 110 | " | " |
| 66 | Motor siren. | 1 | .02252 | 7 | .064 | 35 | 800 | " | " |
| 67 | Junct. box, Main Eng. turning M. | | .06112 | 19 | " | 84 | 300 | " | " |
| 68 | No.1 Main Eng. turning motor, | 2 | .02252 | 7 | " | 42 | 30 | " | " |
| 69 | Junct. box Eng. Rm. Vent. fan M. | | .06112 | 19 | " | 68 | 210 | " | " |
| 70 | No.1 Eng. Rm. Vent fan motor. | 2 | .02252 | 7 | " | 34 | 50 | " | " |

L.C.A. - Lead covered and armoured.
L.C. - Lead covered.

Handwritten signature