

REPORT ON ELECTRIC FITTINGS.

(OTHER THAN FOR THE PROPULSION OF THE VESSEL)

Received at London Office

Date of writing Report 19th April 1939 When handed in at Local Office

Port of SYDNEY N.S.W.

No. in Survey held at Sydney N.S.W.
Reg. Book.

Date, First Survey 1st February Last Survey 12th April 1939
(Number of Visits 9)

on the steel screw tug "WAREE"

Tons { Gross 233
Net 9.85

Built at Sydney N.S.W. By whom built Cockatoo Docks & Eng Co Pty Ltd Hard No. 125 When built 1939

Owners Waratah Tug & Salvage Co Pty Ltd Port belonging to Sydney N.S.W.

Electric Light Installation fitted by Cockatoo Docks & Eng Co Pty Ltd Contract No. ✓ When fitted 1939

System of Distribution Parallel system - constant pressure ✓

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

Direct or Alternating Current, Lighting Direct Power ✓

If alternating current system, state frequency of periods per second ✓

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

Generators, ^{does it} ~~do they~~ comply with the requirements regarding overload Yes ✓, are they compound wound Yes ✓

^{is it} ~~are they~~ over compounded 5 per cent. Yes ✓, if not compound wound state distance between each generator ✓

Where more than one generator is fitted are they arranged to run in parallel ✓, is an adjustable regulating resistance fitted in series with each shunt field ✓

Are all terminals accessible and clearly marked Yes ✓, are they so spaced or shielded that they cannot be accidentally earthed, or short circuited Yes ✓ Are the lubricating arrangements of the generators as per Rule Yes ✓

Position of Generators Starb. side, after end of Engine room.

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

if situated 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 ✓

are their axis of rotation fore and aft Yes ✓

Earthing, are the bedplates and frames of the generating plant efficiently earthed Yes ✓ ^{are the prime mover and} their respective generators in metallic contact Yes ✓

Main Switch Boards, where placed Starb. side of Eng. room, adjacent to generator. ✓

If the generators and main switchboard are not placed in the same compartment, is each generator provided with a fuse on each insulated pole as near as possible to the terminals of the generator, additional to that provided on the main switchboard ✓

Switchboards, ^{is it} ~~are they~~ placed in accessible positions, free from inflammable gases and acid fumes Yes ✓

^{is it} ~~are they~~ protected from mechanical injury and damage from water, steam or oil Yes ✓, if situated near unprotected

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

are they constructed wholly of durable, incombustible non-absorbent materials Yes ✓, is all insulation of high dielectric strength and of

permanently high insulation resistance Yes ✓, if semi-insulating material is used, are all conducting parts connected to one pole

insulated from the slab with mica or micanite and the slab similarly insulated from its framework ✓, and is the

frame effectively earthed ✓ Are the following fittings as per Rule, viz.:— spacing or shielding of live parts

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

bars Yes ✓, individual fuses to voltmeter, pilot or earth lamps Yes ✓, connections of switches Yes ✓

Main Switchgear, description of switchgear for each generator and each outgoing circuit, and arrangement of equalizer switches

For Generator - D.P. Switch & fuses (30amps), For Navigation Board - S.P. Switch & D.P. fuses, For Distributn
Box for - S.P. Switch & D.P. fuses, For W/T Supply - D.P. Switch & D.P. fuses, Other Circuits - S.P. Switch & D.P. fuses

Instruments on main switchboard one ammeters one voltmeters ✓ synchronising device for paralleling purposes.

Earth Testing, state what means are provided at the main switchboard for indicating the state of the insulation of the system Two earth lamps

With S.P. Switch & D.P. fuses

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

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

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.

W. Ross

Electrical Engineers.

Date

COMPASSES.

Distance between electric generators or motors and standard compass 65'.

Distance between electric generators or motors and steering compass 70'.

The nearest cables to the compasses are as follows:—

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

A cable carrying 1.68 Ampères 6' feet from standard compass 4 feet from steering compass.

A cable carrying 2.23 Ampères 6' feet from standard compass 10 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 ~~W.S.W.~~ all courses in the case of the standard compass, and Nil 2.5 degrees on ~~W.S.W.~~ all course in the case of the steering compass.

W. Ross

Builder's Signature.

Date

Is this installation a duplicate of a previous case Yes If so, state name of vessel Steel Tug "WARANG"

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

The electrical generating set, supplied by Sunderland Forge & Engineering Co. Ltd. (See Sunderland Surveyors Cert. dated 1st June 1938) has now been fitted on board in an efficient manner. The installation is of good materials & workmanship, it has been fitted on board in accordance with the Rules & approved plans, afterwards tested under working conditions & found satisfactory.

Noted
F.H.
10/6/39.

(Wiring diagram forwarded under separate cover.)

Total Capacity of Generator 3 Kilowatts

The amount of Fee ... £ 6 : 0 : 0
Travelling Expenses (if any) £ : :
When applied for, 12/4/39
When received, 20/4/39

W. H. M. M. M.
Surveyor to Lloyd's Register of Shipping.

Committee's Minute

TUE 13 JUN 1939

Assigned

See FE machy r/H



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Foundation