

# REPORT ON ELECTRICAL EQUIPMENT

[OTHER THAN FOR THE PROPULSION OF THE VESSEL]

Received at London Office

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Date of writing Report 5<sup>th</sup> 12 Jan 1948. When handed in at Local Office 19 Port of SYDNEY N.S.W.

No. in Reg. Book Survey held at PORT KEMBLA &amp; SYDNEY NSW Date: First Survey 5-2-47 Last Survey 12-1-1948 (Number of Visits 10)

on the TWIN SCREW MOTOR SHIP "CHELMER"

Tons { Gross 209.64  
Net 112.05

Built at PORT KEMBLA By whom built A.E. GOODWIN LTD Yard No. 76 When built 1947

Owners THE ANGLO SAXON PETROLEUM CO. LTD. Port belonging to SYDNEY NSW.

Electrical Installation fitted by A.E. GOODWIN 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.

THIS IS A DUPLICATE OF M.S. BUCKIE, Syd Rpt. 20830 FOR WHICH PLANS WERE SUBMITTED.

Have plans been submitted and approved ☒ System of Distribution TWO WIRE Voltage of supply for Lighting 110Heating ☒ Power 110 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 ☒ WINCH GEN. - YES. + CRUISING - NO. No, are they level compounded under working conditions WINCH GEN. YES. + BATTERY CHARGING GENERATORS.

if not compound wound, state distance between generators 10 FT. and from switchboard 10 &amp; 6 FT. 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

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. TYPE TESTS and the results found as per rule AS PER SYD. Rpt. 20830 ON M.S. BUCKIE Are the lubricating arrangements and the construction

of the generators as per rule YES Position of Generators WINCH GEN. DRIVEN BY DIESEL ENGINE AFT END OF E.R.; CRUISING GEN. BELT DRIVEN FROM MAIN ENGINE SHAFT; AUX. GEN. DRIVEN BY AUX. DIESEL ENGINE AFT FORWARD END OF E.R. (ALL IN E.R.) 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.

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 MISCOLITE, if of synthetic 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 ☒

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 arrangements of equaliser switches WINCH GEN. 20 KW. 300 A.

No-VOLT-OVERLOAD AIR CIRCUIT BREAKER. OTHER GENERATORS (USED FOR BATTERY CHARGING)

PROTECTED BY CUT-OUTS AND AIR BREAKERS.

and for each outgoing circuit LIGHTING, NAVIGATION &amp; BATTERY CIRCUITS PROTECTED BY D.P. BREAKERS AND

FUSE ON EACH POLE. EACH WINCH &amp; WINDLASS CIRCUIT HAS D.P. KNIFE SWITCH WITH FUSE ON EACH POLE.

Are compartments containing switchboards composed of fire-resisting material or lined as per Rule YES. Instruments on main switchboard 3

ammeters 2 voltmeters ☒ synchronising devices. For compound machines in parallel is the ammeter connected on the pole opposite to theequaliser connection ☒ Earth Testing, state means provided EARTH LAMPS.

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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.

A. E. Goodwin Limited

Electrical Engineers.

Date 23rd Jan. 1948.

### COMPASSES.

Minimum distance between electric generators or motors and standard compass 27 feet.

Minimum distance between electric generators or motors and steering compass 20 feet.

The nearest cables to the compasses are as follows:—

A cable carrying 0.4 Amperes led into feet from standard compass & led into feet from steering compass.

A cable carrying 2.0 Amperes 3 feet from standard compass 6 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 N. degrees on any course in the case of the standard compass, and N. degrees on any course in the case of the steering compass.

B. P. Zieeden Builder's Signature. Date

Is this installation a duplicate of a previous case Yes. If so, state name of vessel M.V. BUCKIE. (Srd Rpt 20830)

General Remarks (State quality of workmanship, whether insulation tests, etc., have been made, opinions as to class, etc.)

This electrical equipment has been installed under Special Survey in accordance with the requirements of the Rules and in accordance with plans submitted with Srd Report 20830 on the sister vessel BUCKIE. The materials and workmanship are of good quality. The insulation resistance tests and trials have been carried out in accordance with Rule requirements with good results and in our opinion the vessel, so far as electrical equipment is concerned, is eligible to be classed.

Noted  
JP  
24.3.48.

Total Capacity of Generators 28 Kilowatts.

The amount of Fee £ 12 : 0 : 0

When applied for,

13/10/1947

Travelling Expenses (if any) £ :

When received,

19

H. Leonard & B. P. Zieeden  
Surveyors to Lloyd's Register of Shipping.

Committee's Minute

FRI. 8 APR 1948

Assigned

See minute on F.E. rpt.



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