

REPORT ON ELECTRICAL EQUIPMENT.

(OTHER THAN FOR THE PROPULSION OF THE VESSEL)

Received at London Office

25 OCT 1946

Date of writing Report.....19..... When handed in at Local Office.....19..... Port of HULL
 No. in Survey held at HULL Date, First Survey 14th May/46 Last Survey 24 Oct 46
 Reg. Book. 64208 on the M.T. "THORINA" Tons { Gross 338.51
 Net -
 Built at Beverley By whom built Cook, Welton & Gemmell Ltd. Yard No. 766 When built 1946
 Owners Thornton Trawlers Ltd., Port belonging to Hull.
 Managers:- J. Marr & Son Ltd.
 Electrical Installation fitted by Messrs. Wm. Broady & Son Ltd. Contract No. - When fitted 1946
 Is vessel fitted for carrying Petroleum in bulk No Is vessel equipped with D.F. No E.S.D. Yes Gy.C. No Sub.Sig. No

Have plans been submitted and approved Yes System of Distribution two wire Voltage of supply for Lighting 110

Heating 110 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 No 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 No, 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 No 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 Port & Starboard sides 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 Engine room forward bulkhead port side

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 "Syndanyo", 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 Double pole, double

throw, quick break knife switches and double pole fuses.

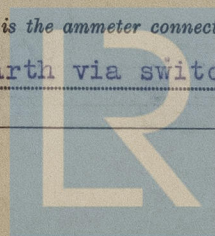
and for each outgoing circuit Double pole, single throw, quick break knife switches and double pole

fuses.

Are compartments containing switchboards composed of fire-resisting material or lined as per Rule Yes Instruments on main switchboard one

ammeters one voltmeters one synchronising devices. For compound machines in parallel is the ammeter connected on the pole opposite to the

equaliser connection - Earth Testing, state means provided Lamps coupled to earth via switches and fuses.



Lloyd's Register
Foundation

015134-015154-0199/2

| DESCRIPTION OF GENERATOR. | No. of | RATED AT | | | | DRIVEN BY | WHERE DRIVEN BY AN INTERNAL COMBUSTION ENGINE. | |
|---------------------------|--------|------------|--------|----------|----------------|------------|--|----------------------|
| | | Kilowatts. | Volts. | Amperes. | Revs. per Min. | | Fuel Used. | Flash Point of Fuel. |
| MAIN | No.1 | 1 | 15 | 110 | 135 | 1000 | Diesel engine | |
| | No.2 | 1 | 10.5 | 110 | 95 | 600/1200 " | " | |
| Winch Gen. | | | | | | | | |
| EMERGENCY ... | 1 | 92.5 | 0/300 | 650 | 600 | " | " | |
| Winch motor | | | | | | | | |
| ROTARY TRANSFORMER | 1 | 115HP | 210 | 440 | 750 | | | |
| Exciter | 1 | 5KW | 110 | 48 | 1000 | | | |

| ALL IMPORTANT MOTORS TO BE ENUMERATED. | No. | B.H.P. | | | | | | | |
|---|-----|--------|---|----------|----|----|---|------|------------------|
| Windlass motor | 1 | 8.15 | 1 | 19/1.064 | 69 | 83 | ✓ | 190' | V.I.B. I.C. & A. |
| Steering motor | 1 | 4 | 1 | 7/1.052 | 35 | 37 | ✓ | 160' | " " " |
| Water cooling motor | 1 | 1.75 | 1 | 7/1.036 | 17 | 24 | ✓ | 90' | " " " |
| Blower motor | 1 | .75 | 1 | 3/1.036 | 7 | 10 | ✓ | 40' | " " " |

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.

WM BROADY & SON LTD
57, 59, 61, STREET,
HULL

Electrical Engineers.

Date 27. 9. 46.

COMPASSES.

Minimum distance between electric generators or motors and standard compass 56' 0"

Minimum distance between electric generators or motors and steering compass 50' 0"

The nearest cables to the compasses are as follows:—

A cable carrying .02 Ampères inside feet from standard compass 6' feet from steering compass.

A cable carrying .02 Ampères 6' feet from standard compass inside 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 every course in the case of the standard compass, and Nil degrees on every course in the case of the steering compass.

W. E. Campbell
General Manager

Builder's Signature.

Date 2. 10. 46.

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

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

The Electrical Equipment of this vessel was installed in accordance with the approved plans.

The materials used are of good quality and the workmanship is good.

On completion the equipment was operated under working conditions with satisfactory results and the insulation resistance of all circuits and apparatus was measured and found good.

This equipment is in my opinion suitable for a classed vessel.

Total Capacity of Generators 123 Kilowatts.

The amount of Fee ... £ 25 : 30 : 43.000.19.

When applied for,

Travelling Expenses (if any) £ :

When received.

.....19.....

W. E. Campbell

Surveyor to Lloyd's Register of Shipping.

FRI. 3 JAN 1947

Committee's Minute

Assigned Su F.E. mch. rph



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2m.10.38. Transfer. (The Surveyors are requested not to write on or below the space for Committee's Minute.)

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