

Rpt. 13.

No.

60955

REPORT ON ELECTRICAL EQUIPMENT.

(OTHER THAN FOR THE PROPULSION OF THE VESSEL)

Received at London Office

2-FEB 1955

Date of writing Report 23/12/54

When handed in at Local Office 8 JAN 1955

Port of

HULL

No. in Survey held at HULL & Portsmouth.

Date, First Survey

30/7/53

Last Survey 21/12/54

Reg. Book.

(No. of Visits (Hull) 3)

on the Trawler "BIRCH"

Built at Beverley.

By whom built Cook, Welton & Gemmell

Yard No.

When built

Owners Vospers, Ltd.

Port belonging to

Aberdeen.

Installation fitted by Vospers, Ltd. & Humber St. Andrew's Eng. Co. Ltd.

When fitted 1954

Is vessel equipped for carrying Petroleum in bulk No

Is vessel equipped with D.F. Yes E.S.D. No Gy.C. No Sub.Sig. No Radar Yes (Marconi)

Plans, have they been submitted and approved Yes

System of Distribution

two wire

Voltage of Lighting 220

Heating 220

Power 220

D.C. or A.C., Lighting D.C.

Power D.C.

If A.C. state frequency

Prime Movers, has the governing been found as per Rule when full load is thrown on and off

Are turbine emergency governors fitted

with a trip switch Generators, are they compound wound Yes

and level compounded under working conditions Yes

Are the generators arranged to run in parallel Yes

Is the compound winding connected to the negative or positive pole

Yes

Have machines 100 kw. and over been inspected by the Surveyors during manufacture and testing

Have certificates of test for machines

under 100 kw. been supplied and the results found as per Rule Yes

Position of Generators On raised platforms forward

Engine room port and starboard sides.

is the ventilation in way of generators satisfactory

are they clear of inflammable material and protected from mechanical injury and

damage from water, steam and oil Yes

Switchboards, where are main switchboards placed On platform at forward

end of Engine Room.

are they in accessible positions, free from inflammable gases and acid fumes and protected from mechanical injury and damage from water,

steam and oil Yes

what insulation is used for the panels Admiralty Grade "A" Bakerlite

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 construction as per Rule, including locking of screws and nuts Yes

Description of Main Switchgear

for each generator and arrangement of equaliser switches 100 amp. triple pole circuit breakers with two pole

overload and reverse current trips.

and the switch and fuse gear (or circuit breakers) for each outgoing circuit

Double pole rotary switches and fuses

on each pole.

Are compartments containing switchboards composed of fire-resisting material or lined as per Rule Yes

Instruments on main switchboard 2

ammeters 2

voltmeters

synchronising devices

For compound machines in parallel are the ammeters and reverse current

protection devices connected on the pole opposite to the equaliser connection

Earth Testing, state means provided 2 lamps

service with mid point earthed switches & fuses

Preference Tripping, state if provided

and tested Yes

Switches, Circuit Breakers and Fuses, are they as per Rule Yes

Yes

are the fuses an Approved Type

Yes

make of fuses Z. Artic & M.E.M.

are all fuses labelled

Yes

If circuit breakers are provided for the generators, at what

overload do they operate 50%

and at what current do the reverse current protective

devices operate 5 V.

Cables, are they insulated and protected as per Rule

Yes

if otherwise than as per Rule are they of an Approved Type Yes

state maximum fall of pressure between bus bars and any point

under maximum load 3

volts

Are all paper insulated and varnished cambric insulated cables sealed at the ends

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 any cables laid under machines or floorplates

if so, are they adequately protected

State

type of cables (if in conduit this should also be stated) in machinery spaces V.I.R. L.C.A. & B., galleys V.I.R. L.C.A. & B.

and laundries

State how the cables are supported or protected

Lead alloy sheathed & armoured

and clipped to perforated steel trays & bulkheads as required.

Are all lead sheaths, armouring and conduits effectually bonded and earthed 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

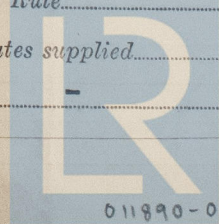
effectively bushed Yes

Refrigerated chambers, are the cables and fittings as per Rule

Have refrigeration fan motors been constructed under survey

and test certificates supplied

Are the motors accessible for maintenance at all times



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Insulation Tests, has the insulation resistance of all circuits and apparatus been tested and found satisfactory..... Yes.

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.

for

HUMBER - ST. ANDREW'S ENGINEERING CO. LIMITED.

Electrical Contractors.

Date 25th January 1955

General Manager.

COMPASSES.

Have the compasses been adjusted under working conditions.

YES

for

HUMBER-ST. ANDREW'S ENGINEERING COMPANY LIMITED.

Contractor's

Builder's Signature.

Date 25th January 1955

General Manager.

Have the foregoing descriptions and schedules been verified and found correct.

Yes

Is this installation a duplicate of a previous case. Yes If so, state name of vessel.

"MAYTHORN"

Plans. Are approved plans forwarded herewith. No If not, state date of approval.

16/12/48.

Certificates. Are certificates of test for motors engaged on essential sea services and generators forwarded herewith.

General Remarks. (State quality of workmanship and materials, opinions as to class, etc.)

The Electrical Installation of this vessel has been fitted in accordance with the Rules, approved plans and Secretary's letters.

This installation has been completed at the port of Hull.

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

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

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

The portions of the equipment marked * were installed at Portsmouth,

See Southampton First Entry Report of September, 1954.

Total Capacity of Generators 52 Kilowatts.
& Winch Generator.

The amount of Fee ... £43 : 10 : 0 When applied for,
Winch £5 0 0 19

(£12 due Southampton).

Travelling Expenses (if any) £ : : 19

H.C. Rodgers &

Surveyor to Lloyd's Register of Shipping.

FRIDAY 22 APR 1955

Committee's Minute

Assigned

See Rpt. 9.



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