

Rpt. 13.

No. 59944

REPORT ON ELECTRICAL EQUIPMENT.

(OTHER THAN FOR THE PROPULSION OF THE VESSEL)

Received at London Office

112 J/ 1074

Date of writing Report 27.11.53.

When handed in at Local Office

14 DEC 1953

19

Port of HULL.

No. in Survey held at
Reg. Book.

HULL.

Date, First Survey 24. 9. 53.

Last Survey 24. 11. 1953.

(No. of Visits 12.)

21436 on the Steam Trawler "NORTHERN CROWN"

Tons { Gross.....
Net.....

Built at Selby.

By whom built

Cochrane & Sons, Ltd.

Yard No. 1386

When built 1953

Owners Northern Trawlers, Ltd.

Port belonging to

Grimsby.

Installation fitted by Wm. Broady & Son.

When fitted 1953

Is vessel equipped for carrying Petroleum in bulk No Is vessel equipped with D.F. Yes E.S.D. Yes Gy.C No Sub.Sig. No Radar Yes

Plans, have they been submitted and approved Yes System of Distribution two wire Voltage of Lighting 110

Heating 110 Power 110 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 Yes 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 No Is the compound winding connected to the negative or positive pole -

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 Engine Room Starbd. side.

Is the ventilation in way of generators satisfactory Yes 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 Engine Room Starbd. side.

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 "SINDANYO", 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 construction as per Rule, including locking of screws and nuts Yes Description of Main Switchgear for each generator and arrangement of equaliser switches Double pole, double throw, quickbreak knife switches and double pole fuses.

and the switch and fuse gear (or circuit breakers) for each outgoing circuit Double pole, double 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 two ammeters two 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 Lamps coupled to earth via switches & fuses Preference Tripping, state if provided - and tested -

Switches, Circuit Breakers and Fuses, are they as per Rule Yes, are the fuses an Approved Type Yes

make of fuses Dorman Smith & W. Sanders, are all fuses labelled Yes If circuit breakers are provided for the generators, at what overload do they operate - and at what current do the reverse current protective devices operate -

Cables, are they insulated and protected as per Rule Yes if otherwise than as per Rule are they of an Approved Type - 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 -

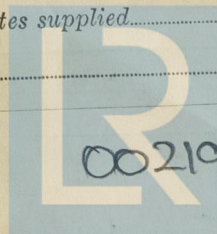
Are all the cable runs in accessible positions not exposed to drip or accumulation of water or oil, high temperatures or risk of mechanical damage Yes, are any cables laid under machines or floorplates No, if so, are they adequately protected - State type of cables (if in conduit this should also be stated) in machinery spaces L.C.A. & B., galleys L.C.A. & B.

and laundries - State how the cables are supported or protected In Machinery spaces exposed positions, etc., clipped to steel tray plates or direct to steelwork, in accommodation L.C. clipped to wood battens or direct to woodwork.

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 -

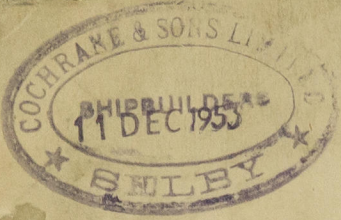


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Lloyd's Register
Foundation

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

[illegible][illegible]



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.

WILLIAM BROADY & SON LTD
ENGINEERS
HULL

Electrical Contractors.

Date 9-12-53.

COMPASSES.

Have the compasses been adjusted under working conditions.

FOR COCHRANE & SONS LTD

V. Gray

DIRECTOR

Builder's Signature.

Date 11/12/1953.

Have the foregoing descriptions and schedules been verified and found correct. Yes
Is this installation a duplicate of a previous case. No If so, state name of vessel. -
Plans. Are approved plans forwarded herewith. No If not, state date of approval. 22/9/52
Certificates. Are certificates of test for motors engaged on essential sea services and generators forwarded herewith. Yes
General Remarks. (State quality of workmanship and materials, opinions as to class, etc.)

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

Noted 38
26/1/54

Total Capacity of Generators 45 ✓ Kilowatts.

The amount of Fee ... £ 40 : 0 : 0 When applied for, 4 DEC 1953 19

Travelling Expenses (if any) £ : : When received, 2 DEC 1953 19

R. G. Larnell

Surveyor to Lloyd's Register of Shipping.

FRIDAY 29 JAN 1954

Committee's Minute

Assigned See Rpt. 4