

REPORT ON ^{REWIRE} ELECTRICAL EQUIPMENT.

(OTHER THAN FOR THE PROPULSION OF THE VESSEL)

30 NOV 1946

Date of writing Report... 8th NOVEMBER 1946... When handed in at Local Office... 11. 11. 46... Port of... NEWCASTLE-ON-TYNE

No. in Survey held at... JARROW + HEBBURN... Date, First Survey... (1946) Feb 19... Last Survey... 4th NOVEMBER 1946... Reg. Book... (Number of Visits 13)

on the... STEAM TRAWLER "NORTHERN DUKE" Tons { Gross... 622 Net... 283

Built at... WESMUND - G... By whom built... DEUSCHE SCHIFF - MACH. A.G. SEEBECK... Yard No... — When built... 1936

Owners... NORTHERN TRAWLERS LTD... Port belonging to... LONDON

Electrical Installation fitted by... PALMERS HEBBURN CO. LTD... Contract No... — When fitted... 1946

Is vessel fitted for carrying Petroleum in bulk... No... Is vessel equipped with D.F... YES E.S.D... YES Gy.C... — Sub.Sig... —

Have plans been submitted and approved... — System of Distribution... TWO WIRE - INSULATED... Voltage of supply for Lighting... 110

Heating... — Power... — Direct or Alternating Current, Lighting... D.C. Power... — If Alternating Current state periodicity... — Prime Movers,

has the governing been tested and found as per Rule when full 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... 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... — Have certificates of

test for machines under 100 kw. been supplied... — and the results found as per rule... — Are the lubricating arrangements and the construction

of the generators as per rule... YES Position of Generators... IN 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... NEAR GENERATORS

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... 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 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 SWITCH

WITH A FUSE ON EACH INSULATED POLE.

and for each outgoing circuit... DOUBLE POLE CHANGE OVER SWITCH WITH A FUSE ON EACH INSULATED 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 is the ammeter connected on the pole opposite to the

equaliser connection... — Earth Testing, state means provided... EARTH LAMPS.

Switches, Circuit Breakers and Fuses, are they as per Rule... YES, are the fuses an approved type... YES, are all fuses labelled as

per Rule... YES If circuit breakers are provided for the generators, at what overload current did they open when tested... —, are the reversed current

protection devices connected on the pole opposite to the equaliser connection... —, have they been tested under working conditions, and at what current

did they operate... — Joint Boxes, Section Boards and Distribution Boards, is the construction and position as per Rule... YES

Cables, are they insulated and protected as per the appropriate Tables of the Rules... 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... < 4 VOLTS, are the ends of all cables having a sectional area of 0.04

square inch and above provided with soldering sockets... YES Are paper insulated and varnished cambric insulated cables sealed at the ends... —

ACCOMMODATION CABLES - LEAD COVERED CLIPPED TO WOOD GROUNDS.

Navigation Lamps, are they separately wired Yes controlled by separate

Fittings, are all fittings on weather decks, in stokeholds and engine rooms and wherever exposed to drip or condensed moisture, weatherproof Yes. Are fittings installed where readily combustible materials or inflammable or explosive dust or gases are likely to be present No, if so, how are they protected _____

are all fittings and accessories constructed and installed as per Rule. YES Searchlight Lamps, No. of 1, whether fixed or portable 1

..... are their fittings as per Rule Heating and Cooking, is the general construction as per Rule,

are the frames effectually earthed....., are heaters in the accommodation of the convection type..... Motors, are all motors constructed and

installed as per Rule _____ and placed in well-ventilated compartments in which inflammable gases cannot accumulate and free from damage from water.

steam and oil....., if situated near unprotected combustible material state minimum distance from same horizontally..... and vertically..... Are

motors coupled to oil fuel transfer and unit pressure pumps capable of being stopped from a position accessible in the event of fire in the pump compartment.....

Have motors of 100 BHP and over been inspected by the Surveyors during manufacture and testing..... Have certificates of test for motors under

100 BHP intended for essential services been supplied and the results found as per Rule..... Control Gear and Resistances, are they constructed and

fitted as per Rule..... Lightning Conductors, where required are they fitted as per Rule..... Yes..... Ships carrying Oil having a Flash Point

less than 150° F. Have all the special requirements of the Rules for such ships been complied with....., are all fuses of the cartridge type.....

are they of an approved type..... Are the fittings for pump rooms, 'tween deck spaces, etc., in accordance with the special requirements for such

ships..... Are the cables lead covered as per Rule..... Spare Gear, if the vessel is for open sea service have spares been provided as per

Rule....., are they suitably stored in dry situations..... Insulation Tests, has the insulation resistance of all circuits and apparatus been tested.....

and found satisfactory.....

PARTICULARS OF GENERATING PLANT.

ATED AT

GENERATOR CABLES.

CONDUCTORS.	MAX.
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CONDUCTORS.	MAXIMUM C
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LIGHTING AND HEATING ETC. CABLES.

	1	7 236	10	24
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MOTOR CABLES.

0263 25

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 PALMERS STEEL TUBES CO. LIMITED,

E. L. Chambers
MANAGING DIRECTOR

Electrical Engineers.

Date 9-11-46

COMPASSES.

Minimum distance between electric generators or motors and standard compass..... 100 FEET

Minimum distance between electric generators or motors and steering compass..... 100 FEET

The nearest cables to the compasses are as follows:—

A cable carrying 0.14 Ampères INSIDE feet from standard compass 6 feet from steering compass.

A cable carrying 0.14 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.

FOR PALMERS STEEL TUBES CO. LIMITED,

E. L. Chambers
MANAGING DIRECTOR

Conversion
Builder's Signature.
Contractor

Date 9-11-46

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

Plans. Are approved plans forwarded herewith If not, state date of approval

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

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

THE ELECTRICAL EQUIPMENT OF THIS VESSEL HAS BEEN REWIRED IN
ACCORDANCE WITH THE SOCIETY'S RULES AND REGULATIONS.

THE MATERIALS USED ARE OF GOOD QUALITY AND THE WORKMANSHIP
IS SATISFACTORY.

ON COMPLETION THE INSULATION RESISTANCE OF ALL CIRCUITS WAS
FOUND TO BE SATISFACTORY, AND THE 10 KW. GENERATOR OPERATED ON LOAD AND
GOVERNING TRIALS WITH SATISFACTORY RESULTS.

THE 8 KW. GENERATOR WAS NOT SATISFACTORY UNDER LOAD CONDITIONS
AND AS TIME DID NOT PERMIT OF HAVING THE GENERATOR OVERHAULED BEFORE THE SHIP
LEFT THIS PORT, IT WAS TAKEN ASHORE AND WILL BE FORWARDED TO THE SHIP'S HOME
PORT ON COMPLETION OF OVERHAUL.

Total Capacity of Generators 18 Kilowatts.

The amount of Fee ... £ 9 : 0 : 29 NOV 1946

Travelling Expenses (if any) £ : : When received. 19.....

Committee's Minute 31 JAN 1947

Assigned See Rpt 9

R. Stone
Surveyor to Lloyd's Register of Shipping.



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Foundation