

Rpt. 13.

# REPORT ON ELECTRICAL EQUIPMENT.

No. 107641

Date of writing Report 4<sup>th</sup> SEPTEMBER 1950

When handed in at Local Office

4<sup>th</sup> SEPTEMBER 1950

Received at London Office

No. in  
Reg. Book.

Survey held at WILLINGTON QUAY - ON - TYNE

Date, First Survey

Port of

NEWCASTLE - ON - TYNE

Last Survey 1<sup>st</sup> SEPT.

19 50

(No. of Visits ONE)

on the DUMB BARGE "KARAJ."

Built at WALLSEND - ON - TYNE

By whom built CLELANDS (SUCCESSORS) LTD.

Tons { Gross 327.56...

Net 327.56...

Owners BRITISH TANKER CO. LTD.

Yard No. 164

When built 1950

Port belonging to LONDON

Installation fitted by NORTHERN ELECTRICAL REWINDS LTD.

Is vessel equipped for carrying Petroleum in bulk No

Is vessel equipped with D.F.

E.S.D.

Gy.C.

Sub. Sig.

When fitted 1950

Plans, have they been submitted and approved YES

System of Distribution TWO WIRE

Voltage of Lighting 12

Heating

Power

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

Power

If A.C. state frequency

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

Generators, are they compound wound

Are turbine emergency governors fitted

and level compounded under working conditions

Are the generators arranged to run

if not compound wound state distance between generators

and from switchboard

Are the generators arranged to run

in parallel

are shunt field regulators provided

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

and the results found as per Rule

Position of Generators BATTERY ONLY

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

Switchboards, where are main switchboards placed

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

steam and oil

what insulation is used for the panels

if of synthetic insulating

material is it an Approved Type

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

Description of Main Switchgear

for each generator and arrangement of equaliser switches

and the switch and fuse gear (or circuit breakers) for each outgoing circuit DOUBLE POLE SWITCH AND FUSES

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

Instruments on main switchboard

ammeters

voltmeters

synchronising devices

For compound machines in parallel are the ammeters and reversed current

protection devices connected on the pole opposite to the equaliser connection

Earth Testing, state means provided

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

are the fuses an Approved Type YES

make of fuses M.E.M.

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 reversed current protective devices operate

Joint Boxes, Section Boards and Distribution Boards, is the construction as per Rule

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

are the ends of all cables having a sectional

area of 0.01 square inch and above provided with soldering sockets

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

Are cables in machinery spaces, galleys, laundries, etc., lead covered

or run in conduit

or of the "HR" type

State how the cables are supported or protected LEAD COVERED ARMoured AND BRAIDED CLIPPED TO

STEEL TRAY

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

Refrigerated chambers, are the cables and fittings as per Rule

Alternative Lighting, are the groups of lights in the engine and boiler rooms arranged as per Rule

Emergency Supply, state position

01197 - 011205 - 0189 1/2

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Lloyd's Register  
Foundation



PARTICULARS OF GENERATING PLANT.

## GENERATOR CABLES.

MAIN DISTRIBUTION CABLES (to Section Boards, Distribution Fuse Boards, etc.).

DESCRIPTION.

The graph is plotted on a grid with 10 vertical columns and 20 horizontal rows. A single line starts at the bottom-left corner (0, 0) and extends diagonally upwards to the top-right corner (10, 20), representing a constant positive slope.

DESCRIPTION.

ALL IMPORTANT MOTORS TO BE  
ENUMERATED.

MOTOR CABLES.

[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.

*Robson*

NORTHERN ELECTRICAL REWINDS LTD.  
108 HOWARD STREET,  
NORTH SHIELDS.

Electrical Contractors.

Date *4<sup>th</sup> Sept 1950*

#### COMPASSES.

Have the compasses been adjusted under working conditions.....

*NO COMPASSES FITTED*

FOR AND ON BEHALF OF

*CLARKES (SUDBURY) LIMITED.*

Builder's Signature.

Date *5/9/50*

DIRECTOR.

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.....

*"KANGARU"*

Plans. Are approved plans forwarded herewith.....

*No*

If not, state date of approval.....

*25/5/50.*

Certificates. Are certificates of test for motors engaged on essential sea 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 SHIP HAS BEEN INSTALLED IN ACCORDANCE WITH THE SOCIETY'S RULES  
AND REGULATIONS, AND THE ARRANGEMENTS ARE IN ACCORDANCE WITH THOSE SHOWN ON THE APPROVED PLANS.*

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

*ON COMPLETION THE INSULATION RESISTANCE OF ALL CIRCUITS WAS ABOVE RULE REQUIREMENTS.*

*THE EQUIPMENT, AS INSTALLED, IS, IN MY OPINION, SUITABLE FOR A CLASSED SHIP.*

*Noted SW 18/9/50*

Total Capacity of Generators..... Kilowatts.

The amount of Fee ...

... £ *5* : 0 :

When applied for,

*26 SEP 1950*

When received,

19.....

Travelling Expenses (if any) £ : :

*P. P. Stone*  
Surveyor to Lloyd's Register of Shipping.

Committee's Minute..... *FRI, 29 SEP 1950*

Assigned.....

*See Minute on F.E. Rpt*