

Rpt. 13.

No. 109709

REPORT ON ELECTRICAL EQUIPMENT.

(OTHER THAN FOR THE PROPULSION OF THE VESSEL)

Received at London Office

Date of writing Report 2 JUL 1941 When handed in at Local Office 2 JUL 1941 Port of London

No. in Survey held at 7amsham Date, First Survey 31 May Last Survey 18 JUNE 1941
Reg. Book. (Number of Visits 15.8...)on the M/V "EMPIRE CRAG" Tons { Gross...
Net...

Built at 7amsham By whom built James Pollock & Co Yard No. 1777 When built 1941

Owners Port belonging to

Electrical Installation fitted by Mackay & Co Ltd Contract No. When fitted 6-41

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

Have plans been submitted and approved Yes System of Distribution Two wire Insulation Voltage of supply for Lighting 50

Heating Yes Power Yes Direct or Alternating Current, Lighting Diesel Power Yes If Alternating Current state frequency Yes 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 Yes Generators, are they compound wound Yes, are they level compounded under working conditions Yes,

if not compound wound state distance between generators Yes and from switchboard Yes Where more than one generator is fitted are they

arranged to run in parallel Yes, one shunt field regulator 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 Yes 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 Engine Room - Starboard Side

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 Yes and vertically Yes, 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 - Starboard 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 Yes and vertically Yes, what insulation

material is used for the panels Suidamp, 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 Yes 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 DP Switches and

Fuses

and for each outgoing circuit DP Main Switch and Fuses

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

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

equaliser connection Yes Earth Testing, state means provided Earth lamps

PARTICULARS OF GENERATING PLANT.

GENERATOR CABLES.

MAIN DISTRIBUTION CABLES.

LIGHTING AND HEATING, ETC., CABLES.

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.

MACKAY & CO.

D. Mackay

Electrical Engineers.

Date July 1st 1941

COMPASSES.

Minimum distance between electric generators or motors and standard compass. none

Minimum distance between electric generators or motors and steering compass. 30 ft

The nearest cables to the compasses are as follows:—

A cable carrying 1.8 Ampères feet from standard compass 20 feet from steering compass.

A cable carrying 3.0 Ampères feet from standard compass 6 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 all compass course in the case of the standard compass, and degrees on course in the case of the steering compass.

Builder's Signature.

Date.

Is this installation a duplicate of a previous case. Yes. If so, state name of vessel. 42 N 1776 "Empire Creek"

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 installed in compliance with the approved plans - was examined and tested under full load working conditions and found to be satisfactory - eligible in my opinion for the proposed classification.

Noted

HR

4.7.41

Total Capacity of Generators. 7 Kilowatts.

The amount of Fee ... £ 7 : 0 :
+ 25% 1 : 15 : 0
Travelling Expenses (if any) £ 1 : 12 : 3

When applied for,

1-2 JUL 1941

When received.

19.....

J. D. Dwyer
Surveyor to Lloyd's Register of Shipping.

Committee's Minute FRI 11 JUL 1941

Assigned

See Lon. J.C. 109702