

REPORT ON ELECTRICAL EQUIPMENT.

(OTHER THAN FOR THE PROPULSION OF THE VESSEL)

Received at London Office.....

Date of writing Report.....19..... When handed in at Local Office.....19..... Port of Ipswich

No. in Survey held at Wivenhoe Date, First Survey 4/7/52 Last Survey 4/2/53 19.....
Reg. Book. (Number of Visits..... 4)

on the MOTOR TANK BARGE "SWALLOW C" Tons { Gross 41.68
Net 44.69

Built at Wivenhoe By whom built Jas W Cook & Co (Wivenhoe) Ltd Yard No. 1063 When built 1953

Owners Jas W Cook & Co Ltd Port belonging to Hull

Electrical Installation fitted by Jas W Cook & Co (Wivenhoe) Ltd Contract No. 1063 When fitted 1953

Is vessel fitted for carrying Petroleum in bulk Yes 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 Wires Voltage of supply for Lighting 24

Heating ✓ Power 110 Direct or Alternating Current, Lighting Direct Power Direct 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 ✓ Are turbine emergency governors fitted with a trip switch as per Rule ✓ Generators, are they compound wound ? are they level compounded under working conditions ?

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. Starboard side forward.

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 Engine Room

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 Sundanya , 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 frame effectually earthed Yes

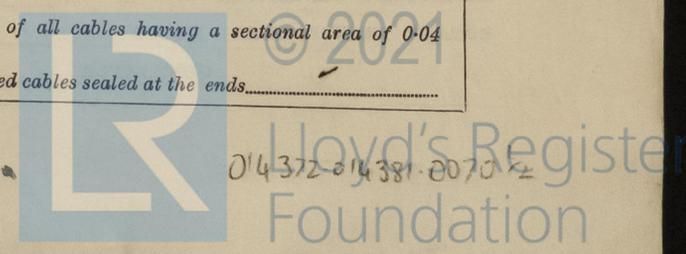
Is the construction as per Rule Yes , including accessibility of parts Yes , absence of fuses on the back of the board Yes , individual fuses to pilot and earth lamps, voltmeters, etc., Yes locking of screws and nuts Yes , labelling of apparatus and fuses Yes , fuses on the "dead" side of switches Yes Description of Main Switchgear for each generator and arrangement of equaliser switches Double pole.

and for each outgoing circuit Double pole.

Are compartments containing switchboards composed of fire-resisting material or lined as per Rule ✓ Instruments on main switchboard 2 ammeters 2 voltmeters 2 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 Surtex 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 0.04 square inch and above provided with soldering sockets ✓ Are paper insulated and varnished cambric insulated cables sealed at the ends ✓



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.

Electrical Engineers. Date

COMPASSES. *None.*

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

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

The nearest cables to the compasses are as follows:—

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

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Have the compasses been adjusted with and without the electric installation at work at full power.....

Has the effect of switching on and off circuits, motors and other electro-magnetic apparatus within the vicinity of the compasses been noted.....

The maximum deviation due to electric currents was found to be degrees on course in the case of the standard compass, and degrees on course in the case of the steering compass.

For and on behalf of
JAMES W. COOK & Co. (Wolverhampton) LTD. Builder's Signature. Date **12 JUN 1953**

Is this installation a duplicate of a previous case *Yes.* If so, state name of vessel *Kestrel C & Kingfisher C*

Plans. Are approved plans forwarded herewith *No.* If not, state date of approval *29/4/52.*

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.)

This electrical installation has been carried out in accordance with plans approved and the requirements of the Rules. The workmanship is good, insulation tests have been carried out & found to be within rule requirements. The installation so far as completed has been examined under working conditions & found to be in order.

To complete this electrical installation the 3KW. 110V/110V auxiliary dynamo remains to be fitted (to the aux pumping & Compressor set) and wired to the switchboard and the electric cooker modified to comply with the requirements of the Code & Rules and the General Spec of this Society for petroleum vessels. The 110 volt installation will also require to be operated under working conditions & dynamo given over tested.

Subject to satisfactory completion, the undersigned considers the installation eligible for inclusion in the L.M.C. Al Base for carriage of petroleum in bulk, for canal & estuary service including Air & Calder haulage.

See attached letter regarding completion at Hull.

Total Capacity of Generators *3 1/2* Kilowatts.

The amount of Fee *Minimum* £ *6:00* (When applied for,19.....)
Travelling Expenses (if any) £ *See Hull* (When received,19.....)

Surveyor to Lloyd's Register of Shipping.

FRIDAY 17 JUL 1953

Committee's Minute

Assigned *See F. E. Melby rpt.*

5m.4.38.—Transfer. (MADE AND PRINTED IN ENGLAND.)
(The Surveyors are requested not to write on or below the space for Committee's Minute.)

