

Rpt. 13

REPORT ON ELECTRICAL EQUIPMENT

(OTHER THAN FOR THE PROPULSION OF THE VESSEL)

No. 65692

Date of writing Report 11/2/1960 When handed in at Local Office 1960 Port of HULL. Received at London Office 4 MAR 1960

No. in Survey held at HULL. Date, First Survey 9. 11. 59 Last Survey 28. 1. 1960. (No. of Visits 10.)

Reg. Book on the Motor Trawler "ARUM" Tons { Gross Net

Built at Beverley. By whom built Cook, Welton & Gemmell, Ltd. Yard No. 954 When built 1959/60.

Owners Irvin & Johnson, Ltd. Port belonging to Cape Town. When fitted 1959/60.

Installation fitted by Wm. Broady & Son, Ltd. When fitted 1959/60.

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 No.

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 Negative. 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 Port side E.R. 40 K.W. Starboard side E.R. 25 K.W. (Belt driven from M.E. For'd shaft); Winch Gen. 164 KW (Chain driven from M.E. For'd shaft).

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 E.R. Port side for'd.

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 Pierite B, 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 air break circuit breakers with O.L. and time lag release.

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 2

ammeters 2 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 connected to earth via switches & fuses. Preference Tripping, state if provided No. and tested -

Switches, Circuit Breakers and Fuses, are they as per Rule Yes. are the fuses an Approved Type Yes. make of fuses G.E.C; Dorman Smith are all fuses labelled Yes. If circuit breakers are provided for the generators, at what overload do they operate 25% 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 Below 6% volts. Are all paper insulated and varnished cambric insulated cables sealed at the ends Yes.

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.; L.C., galleys L.C.A. & B.

and laundries - State how the cables are supported or protected In Machinery spaces, exposed positions, etc., L.C.A. & B.; L.C. 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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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.

ENGLISH STREET

Electrical Contractors.

Date 15/2/60.

COMPASSES

Have the compasses been adjusted under working conditions YES.

COOK, WELTON & GEMMELL LTD.

Builder's Signature.

Date 17/2/60.

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 Yes. If not, state date of approval.

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

General Remarks. (State quality of workmanship and materials, opinions as to class, etc.)

The Electrical Equipment of this vessel has been installed in accordance with the Rules, Approved plans and Secretary's letters.

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 measured and found satisfactory.

The equipment is, in my opinion suitable for a classed vessel.

Total Capacity of Generators 65 Kilowatts.

and winch generator.

The amount of Fee ... £ 50 : 0s : When applied for,
Winch Generator 5 : 0s : 19

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

Surveyor to Lloyd's Register of Shipping

Committee's Minute FRIDAY 24 JUN 1960

Assigned See Rpr 4b