

# REPORT ON ELECTRICAL EQUIPMENT.

(OTHER THAN FOR THE PROPULSION OF THE VESSEL)

Received at London Office

Date of writing Report 27/1/60 19... When handed in at Local Office 27/1/60 19... Port of IPSWICH.

No. in Survey held at WIVENHOE. Date, First Survey 11/12/59 Last Survey 21/1/1960.  
Reg. Book. (No. of Visits 4)

42733 on the MOTOR BARGE "REYSHANK C." Tons { Gross 146.36  
Net 81.25

Built at WIVENHOE. By whom built JAS. W. COOK & CO (WIVENHOE) LTD Yard No. 1192 When built 1-1960

Owners J. W. COOK & CO LTD Port belonging to HALL.

Installation fitted by JAS. W. COOK & CO (WIVENHOE) LTD When fitted 1-1960

Is vessel equipped for carrying Petroleum in bulk. YES. Is vessel equipped with D.F. NO E.S.D. NO 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 NONE Have certificates of test for machines under 100 kw. been supplied and the results found as per Rule YES. Position of Generators ONE PORT AND ONE STARBOARD

IN E.R. DRIVEN BY AUXILIARY ENGINES AND MAIN ENGINE DRIVEN 24/32 VOLT 600 WATT.

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 IN ENGINE ROOM STARBOARD, SIDE AFT.

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 SINDANYO (PANEL ENCLOSED) G.T. STEEL CASE, 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 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 ROTARY SWITCHES.

and the switch and fuse gear (or circuit breakers) for each outgoing circuit DOUBLE POLE ROTARY SWITCHES.

Are compartments containing switchboards composed of fire-resisting material or lined as per Rule YES Instruments on main switchboard 2 ammeters 2 voltmeters NO 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. 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 "ARTIC" are all fuses labelled YES. If circuit breakers are provided for the generators, at what overload do they operate NOT PROVIDED and at what current do the reverse current protective devices operate NOT PROVIDED 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 NIL volts. Are all paper insulated and varnished cambria 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 - State type of cables (if in conduit this should also be stated) in machinery spaces MINERAL INSULATED COPPER SHEATHED THROUGHOUT. and laundries - State how the cables are supported or protected CLIPPED TO METAL TRAYS.

Are all COPPER 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 NONE. 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 -

Alternative Lighting, are the groups of lights in the engine and boiler rooms arranged as per Rule **YES**. Emergency Supply, state position **24 VOLT "NIFE" BATTERY IN ENGINE ROOM ON AFT BULKHEAD.**

Navigation Lamps, are they separately wired **YES**. controlled by separate double pole switches and fuses **YES**. Are the switches and fuses in a position accessible only to the officers on watch **YES**. is an automatic indicator fitted **NO**. Is an alternative supply provided **YES**.

Secondary Batteries, are they constructed, fitted and adequately ventilated as per Rule **YES**. state battery capacity in ampere hours **120**. Where required to do so does it comply with 1948 International Convention **YES**.

Lighting, is fluorescent lighting fitted **NO**. If so, state nominal lamp voltage **-** and compartments where lamps are fitted **-**.

Fittings, are all fittings on weather decks, in stokeholds and engine rooms and wherever exposed to drip or condensed moisture, weatherproof **YES**.

Searchlights, No. of **NONE**. whether fixed or portable **-**, are they of the carbon arc or of the filament type **-**.

Heating and Cooking, is the general construction as per Rule **YES**. are the frames effectually earthed **YES**. are heaters in the accommodation of the convection type **YES**. Motors, are all motors constructed and installed as per Rule and placed in well-ventilated compartments in which inflammable gases cannot accumulate and protected from damage from water, steam and oil **NO MOTORS**.

Are motors coupled to oil fuel transfer and pressure pumps capable of being stopped from a position accessible in the event of fire in the pump compartment **NONE**. 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 sea services been supplied and the results found as per Rule **-**.

Lightning Conductors, where required are they fitted as per Rule **NONE**.

Ships carrying Oil having a Flash Point of less than 150° F. Have all the special requirements of the Rules for such ships been complied with **YES**. are all fuses of an Approved Cartridge Type **YES**. make of fuse **"ARTIC"**. Are the fittings for pump rooms, 'tween deck spaces, etc., in accordance with the special requirements for such ships **YES**. Are all cables lead covered as per Rule **MINERAL INSULATED COPPER SHEATHED**.

E.S.D., if fitted state maker **NONE**. location of transmitter and receiver **-**.

Spare Gear, if the vessel is for open sea service have spares been provided as per Rule and suitably stored in dry situations **NOT SUPPLIED**.

Insulation Tests, has the insulation resistance of all circuits and apparatus been tested and found satisfactory **YES**.

PARTICULARS OF GENERATING PLANT.

DESCRIPTION OF GENERATOR.	No. of	MAKER.	RATED AT				PRIME MOVER.	
			Kw. per Generator.	Volts.	Ampères.	Revs. per Min.	TYPE.	MAKER.
MAIN	1	STARBOARD. DAVID McLURE LTD	5.0	110	45	1000	3 CYL.	LISTER DIESEL ENGINE.
	2	PORT. " " "	5.0	110	45	1000	2 CYL.	- do -
	3.	M.E. " " "	0.6	24/32	25	1500		MAIN ENGINE.
EMERGENCY ROTARY TRANSFORMER								

GENERATOR CABLES.

DESCRIPTION.	No. of	Kw.	CONDUCTORS.		MAXIMUM CURRENT IN AMPERES.		APPROX. LENGTH (lead plus return feet).	INSULATION.	PROTECTIVE COVERING.
			No. in Parallel per Pole.	Sectional Area or No. and Dia. of Strands. Sq. Ins. or sq. mm.	In the Circuit.	Rule.			
MAIN GENERATOR	1	5.0	1	2/.007.	45	45	8	MINERAL	COPPER SHEATHED
	2	5.0	1	2/.007.	45	45	80	"	" "
	3.	0.6	1	2/.007.	25	45	15	"	" "
EMERGENCY GENERATOR									
ROTARY TRANSFORMER: MOTOR									
" " GENERATOR									

MAIN DISTRIBUTION CABLES (to Auxiliary Switchboards, etc.).

DESCRIPTION.	No. of	Sectional Area or No. and Dia. of Strands. Sq. Ins. or sq. mm.	In the Circuit.	Rule.	APPROX. LENGTH (lead plus return feet).	INSULATION.	PROTECTIVE COVERING.
FORWARD CABIN.	1	2/.007.	29	45	240	MINERAL	COPPER SHEATHED
ENGINE ROOM LIGHTS.	1	2/.0015	1	5	46	"	" "
SWITCH PLUG FOR KETTLE.	1	2/.003	9	15	86	"	" "
NAVIGATION LIGHTS (24 VOLT) (2).	1	2/.003	4.5	15	72	"	" "
ENGINE ROOM (24 VOLT).	1	2/.003	7	15	86	"	" "
FORWARD CABIN (24 VOLT).	1	2/.0145	7	70	240	"	" "

46.  
23/3/60



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 and on behalf of  
JAMES W. COOK & Co. (Wivenhoe) Ltd.

*C. Geo. Smith*  
GENERAL MANAGER

Electrical Contractors.

Date 26/1/60

COMPASSES.

Have the compasses been adjusted under working conditions ADJUSTED DURING TRIALS

for and on behalf of  
JAMES W. COOK & Co. (Wivenhoe) Ltd.

*C. Geo. Smith*  
GENERAL MANAGER

Builder's Signature.

Date 26/1/60.

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. "SEAGULL C"

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 YES.

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

THIS ELECTRICAL INSTALLATION HAS BEEN CARRIED OUT IN ACCORDANCE WITH PLANS APPROVED, SECRETARY'S LETTERS AND THE REQUIREMENTS OF THE RULES.

THE WORKMANSHIP IS GOOD THROUGHOUT AND INSULATION TESTS ON ALL CIRCUITS FOUND TO BE WITHIN RULE REQUIREMENTS.

THE COMPLETED INSTALLATION HAS BEEN TESTED UNDER WORKING CONDITIONS WHEN THE GENERATORS, GOVERNORS, SWITCHBOARDS AND MAIN ENGINE DRIVEN GENERATOR VOLTAGE REGULATOR WERE FOUND IN ORDER AND ALL OPERATED SATISFACTORILY.

THIS ELECTRICAL INSTALLATION IS IN THE OPINION OF THE UNDERSIGNED ELIGIBLE FOR INCLUSION IN THE VESSEL CLASS  $\dagger$  LMC FOR CARRYING PETROLEUM FLASH POINT BELOW 150°F.

Total Capacity of Generators 10.6 Kilowatts.

The amount of Fee ... £ 11-0-0 When applied for, 15 FEB 1960

Travelling Expenses (if any) £ 3-0-0 When received, 19

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

FRIDAY 21 OCT 1960

Committee's Minute

Assigned See Apt. 1

501.650 - Transfer. (MADE AND PRINTED IN ENGLAND)  
(The Surveyors are requested not to write on or below the space for Committee Minutes.)



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