

B.C. base

Rpt. 13.

No. 19062

REPORT ON ELECTRICAL EQUIPMENT.

(OTHER THAN FOR THE PROPULSION OF THE VESSEL)

2 JUN 1950

Date of writing Report 19 When handed in at Local Office 26.5.50 Received at London Office Port of MIDDLESBROUGH.

No. in Survey held at SOUTHBANK-ON-TEES. Date, First Survey 4.1.50 Last Survey 2.5.1950
Reg. Book. (No. of Visits 12.)

413/5 on the WHALER "SOUTHERN GAMBLER". Tons { Gross 138 Net 150

Built at SOUTHBANK-ON-TEES. By whom built SMITHS DOCK CO. LTD. Yard No. 1198 When built 1950.

Owners THE SOUTH GEORGIA CO. LD. (CHR. SALVESEN & CO.) Port belonging to LEITH.

Installation fitted by R. PICKERSGILL & SONS LTD., STOCKTON-ON-TEES. When fitted 1950.

Is vessel equipped for carrying Petroleum in bulk. NO. Is vessel equipped with D.F. YES E.S.D. NO Gy.C. NO Sub.Sig. NO Radar YES.

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.

if not compound wound state distance between generators - and from switchboard - Are the generators arranged to run in parallel YES, 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 YES and the results found as per Rule YES.

Position of Generators FORE & AFT, INBOARD & OUTBOARD ON GENERATOR FLAT, STD. SIDE AFT IN ENG. RM.

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 ON GENERATOR FLAT FORE, AND AFT ADJACENT TO SHELL FACING PORT AND NEAR GENERATORS.

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 EBDNY FINISH, 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 TRIPLE POLE AIR BREAK CIRCUIT BREAKER WITH OVERLOAD TRIPS AND TIME DELAYS ON TWO POLES, REVERSE CURRENT TRIP, THIRD POLE COUPLED TO EQUALISER.

and the switch and fuse gear (or circuit breakers) for each outgoing circuit DOUBLE POLE SINGLE THROW QUICK BREAK KNIFE SWITCH 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

protection devices connected on the pole opposite to the breaker connection YES Earth Taping, state mains provided EARTH LAMPS COUPLED TO EARTH THRO' SWITCHES AND FUSES.

Switches, Circuit Breakers and Fuses, are they as per Rule YES, are the fuses an Approved Type YES, make of fuses G.E.C. are all fuses tagged YES If circuit breakers are provided for the generators, at what

overload do they operate 10% and at what current do the reversed current protection devices operate 10%

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

Cables, are they insulated and protected as per Rule YES, if otherwise than as per Rule are they of an Approved Type YES, state maximum fall of pressure between bus bars and any point under maximum load 46.6 Y are the ends of all cables having a sectional

area of 0.01 square inch and above provided with soldering sockets YES Are all paper insulated and varnished cambric insulated cables sealed at the ends - Are all the cable runs in accessible positions, not exposed to any accumulation of water or oil,

high temperatures or risk of mechanical damage YES, are any cables laid under machines or floor plates YES, if so, are they adequately protected YES. Are cables in machinery spaces, galleys, lavatories, etc. lead covered YES or run in conduit YES.

or of the "HR" type - State how the cables are supported or protected CABLES IN ENGINE ROOM CLIPPED TO PERFORATED METAL TRAY PLATES. GALLEY RANGE CABLES LED IN PLUMBERS PIPE. FORWARD MAINS THRO' NO. 1 HOLD CLIPPED TO METAL PERFORATED TRAY PLATE. LEAD COVERED CABLES IN

ACCOMMODATION CLEATED TO WOOD GROUNDS.

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 -

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

DESCRIPTION OF GENERATOR.	No. of	MAKER.	RATED AT				PRIME MOVER.	
			Kilowatts per Generator.	Volts.	Ampères.	Revs. per Min.	TYPE.	MAKER.
MAIN ...	2	SUNDERLAND FORGE & ENGINEERING CO.	15	110	136.5	550	STEAM.	SUNDERLAND FORGE.
EMERGENCY ...								
ROTARY								
TRANSFORMER								

DESCRIPTION.	KILOWATTS.	CONDUCTORS.		MAXIMUM CURRENT IN AMPERES.		APPROX. LENGTH (lead plus return feet).	INSULA- TION.	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	15	1	37/072	136·5	152	36	V.I.R.	LEAD COVERED.
" " EQUALISER	1	1	19/064	68	83	18	V.I.R.	LEAD COVERED.
" " "	15	1	37/072	136·5	152	30	V.I.R.	LEAD COVERED.
" " "	1	1	19/064	68	83	15	V.I.R.	LEAD COVERED.
EMERGENCY GENERATOR								
ROTARY TRANSFORMER : MOTOR								
" " GENERATOR... ..								

[illegible][illegible][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.

RICHARD PICKERSGILL & SONS, LTD.

Electrical Contractors.

Date

COMPASSES.

Have the compasses been adjusted under working conditions

YES.

For SMITH'S DOCK CO. LTD.

Builder's Signature.

Date 9-5-50.

SHIPYARD MANAGER

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

SOUTHERN GUIDER.

Plans. Are approved plans forwarded herewith

NO

If not, state date of approval

30.7.1949.

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

YES.

General Remarks. (State quality of workmanship, whether insulation tests, etc., have been made, opinions as to class, etc.)

THE ELECTRICAL EQUIPMENT FOR THIS VESSEL HAS BEEN INSTALLED UNDER SPECIAL SURVEY AND THE ARRANGEMENTS ARE IN ACCORDANCE WITH OR EQUIVALENT TO THOSE SHOWN ON THE APPROVED PLANS AND THE RULES FOR ELECTRICAL EQUIPMENT.

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

ON COMPLETION THE EQUIPMENT WAS OPERATED UNDER WORKING CONDITIONS, THE VARIOUS PROTECTIVE DEVICES WERE ADJUSTED AND OPERATED AND THE INSULATION RESISTANCE OF ALL CIRCUITS MEASURED AND FOUND GOOD.

THIS INSTALLATION IS IN MY OPINION SUITABLE FOR A CLASSED VESSEL.

Noted and 19/6/50.

Total Capacity of Generators 30.1 Kilowatts.

The amount of Fee ...

£ 37 : 10 :

When applied for,

1.6.19.50

When received,

19

Travelling Expenses (if any) £

Surveyor to Lloyd's Register of Shipping.

Committee's Minute

FRI. 23 JUN 1950

Assigned

S. F. E. mch. rpt.



© 2021

Lloyd's Register Foundation