

Ballykeirke

No. 2439

THE BRITISH CORPORATION REGISTER
OF SHIPPING AND AIRCRAFT.

Report No. 2493 No. in Register Book 3986

s.s. PORTAVOGIE

Makers of Engines JOHN LEWIS & SONS LTD

Works No. 212

Makers of Main Boilers JOHN LEWIS & SONS LTD

Works No. 176

Makers of Donkey Boiler -

Works No. -

MACHINERY.



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No.

THE BRITISH CORPORATION REGISTER
OF SHIPPING AND AIRCRAFT.

Report No. No. in Register Book

Received at Head Office

9th October 1934

Surveyor's Report on the New Engines, Boilers, and Auxiliary
Machinery of the ^{Single} ~~Swain~~ ^{Quadruple} Screw STEAMER
"PORTAVOGUE"

Official No.

Port of Registry

BELFAST.

Registered Owners

JOHN KELLY LTD

Engines Built by

JOHN LEWIS & SONS LTD

at

ABERDEEN.

Main Boilers Built by

JOHN LEWIS & SONS LTD

at

ABERDEEN.

Donkey " "

at

Date of Completion

2.10.34

First Visit 29.11.33

Last Visit 2.10.34

Total Visits 2.10.34 18.



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RECIPROCATING ENGINES.

Works No. 212. No. of Sets 1. Description TRIPLE EXPANSION,
SURFACE CONDENSING, DIRECT ACTING, INVERTED, RECIPROCATING
STEAM ENGINES.

No. of Cylinders each Engine 3 No. of Cranks 3
Diars of Cylinders 14 1/2" 25" 41" Stroke 30"
Cubic feet in each L.P. Cylinder 22.92 CF
Are Spring-loaded Relief Valves fitted to Top and Bottom of each Cylr.? YES
" " each Receiver? YES
Type of H.P. Valves, PISTON
1st L.P. " ANDREWS & CAMERON BALANCED
2nd L.P. " —
L.P. " D SLIDE
" Valve Gear STEPHENSONS LINK MOTION
" Condenser CAST IRON CIRCULAR Cooling Surface 893 sq. ft.
Diameter of Piston Rods (plain part) 4 1/4" Screwed part (bottom of thread) 3.00"
Material " MILD STEEL
Diar. of Connecting Rods (smallest part) 4 1/4" Material MILD STEEL
" Crosshead Gudgeons 4 1/4" Length of Bearing 4 1/4" Material " "
No. of Crosshead Bolts (each) 4 Diar. over Thrd. 1 3/4" Thrds. per inch 6 Material MILD STEEL
" Crank Pin " " 2. " 2 1/4" " 6 " " "
" Main Bearings 6 Lengths 8 5/8"
" Bolts in each 2 Diar. over Thread 2 Threads per inch 6 Material "
" Holding Down Bolts, each Engine 58 Diar. 1" No. of Metal Chocks 58.
Are the Engines bolted to the Tank Top or to a Built Seat? BUILT SEAT.
Are the Bolts tapped through the Tank Top and fitted with Nuts Inside? —
If not, how are they fitted?

Connecting Rods, Forged by FIFE LEW FORGE CO LTD.
Piston " " JOHN LEWIS & SONS LTD
Crossheads, " " (FIFE FORGE CO LTD.)
Connecting Rods, Finished by JOHN LEWIS & SONS LTD
Piston " " " " " "
Crossheads, " " " " " "
Date of Harbour Trial 28.9.34.
" Trial Trip 2.10.34.
Trials run at ABERDEEN BAY.
Were the Engines tested to full power under Sea-going conditions? YES.
If so, what was the L.H.P.? Revols. per min. 103.
Pressure in 1st L.P. Receiver, 73 lbs., 2nd L.P., — lbs., L.P., 10 1/2" lbs., Vacuum, 26 1/2" ins.
Speed on Trial 12.2 KNOTS
If the Conditions on Trial were such that full power records were not obtained give the following estimated data:—
Builders' estimated L.H.P. 907. Revols. per min. 103.
Estimated Speed 12 KNOTS.



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TURBO-ELECTRIC PROPELLING MACHINERY.

No. of Turbo-Generating Sets _____ Capacity of each _____

Type of Turbines employed _____

Description of Generators _____

No. of Motors driving Propeller Shafting _____

Are the Propeller Shafts driven direct by the Motors or through Gearing? _____

Is Single or Double Reduction Gear employed? _____

Description of Motors _____

Diam. of 1st Reduction Pinion _____ } Width _____ Pitch of Teeth _____
 " 1st " Wheel _____ }

Estimated Pressure per lineal inch _____

Diam. of 2nd Reduction Pinion _____ } Width _____ Pitch of Teeth _____
 " 2nd " Wheel _____ }

Estimated Pressure per lineal inch _____

Revs. per min. of Generators at Full Power _____

" " Motors " _____

" " 1st Reduction Shaft _____

" " 2nd " _____

" " Propellers at Full Power _____

Total Shaft Horse Power _____

Date of Harbour Trial _____

" Trial Trip _____

Trials run at _____

Speed on Trial _____ Knots. Propeller Revs. per min. _____ S.H.P. _____

Makers of Turbines _____

" Generators _____

" Motors _____

" Reduction Gear _____

Turbine Spindles forged by _____

" Wheels forged or cast by _____

Reduction Gear Shafts forged by _____

" Wheels forged or cast by _____

DESCRIPTION OF INSTALLATION.

PUMPS, ETC.

No. of Air Pumps 1 Diar. 13" Stroke 15"

Worked by Main or Independent Engines? MAIN ENGINES

No. of Circulating Pumps 1 Diar. Stroke

Type of " CENTRIFUGAL

Diar. of " Suction from Sea 6"

Has each Pump a Bilge Suction with Non-return Valve? YES Diar. 4"

What other Pumps can circulate through Condenser? BALLAST PUMP

No. of Feed Pumps on Main Engine 2 Diar. 2 3/4" Stroke 15"

Are Spring-loaded Relief Valves fitted to each Pump? YES

Can one Pump be overhauled while the others are at work? YES

No. of Independent Feed Pumps — Diar. — Stroke —

What other Pumps can feed the Boilers? GENERAL SERVICE PUMP

No. of Bilge Pumps on Main Engine 2 Diar. 2 3/4" Stroke 15"

Can one Pump be overhauled while the others are at work? YES

No. of Independent Bilge Pumps —

What other Pumps can draw from the Bilges? BALLAST PUMP.

Are all Bilge Suctions fitted with Roses? HOLDS ER MUDBOXES & TAIL PIPES

Are the Valves, etc., so arranged as to prevent unintentional connection between Sea and Bilges? YES

Are all Sea Connections made with Valves or Cocks next the Ship's sides? BOTH

Are they placed so as to be easily accessible? YES

Are the Discharge Chests placed above or below the Deep Load Line? ABOVE

Are they fitted direct to the Hull Plating and easily accessible? YES

Are all Blow-off Cocks or Valves fitted with Spigots through the Hull Plating and Covering Plates or Flanges on the Outside? YES

BOILERS

No. of Boilers 1 THE CYLINDRICAL MULTITUBULAR MARINE

Type of Boiler Model SINGLE END FIRE

No. of Tubes in each THREE

Type of Tubes PLAIN (WATERWAYS)

Date when last approved 27.10.22

Approved Working Pressure 200 lbs/sq

Hydraulic Test Pressure 320 lbs/sq

Date of Hydraulic Test 11.7.24

Pressure at which Valves were set 22.8.24

Date of Accumulation Test 2.10.24

Maximum Pressure under Accumulation Test 202 lbs/sq

System of Drafting NATURAL

Can Boilers be worked separately? —

Location of Tubes COALFIRE

Material of Tubes —

Heat Resistant —

Rivet Head BOTTOM IRON & STEEL CO LTD

Rivets RIVET BOLT & NUT CO LTD

Fabrication JOHN MARSHALL (MOTHERWELL) LTD

Greatest Internal Diar. of Boilers 12'-0"

Length 10'-0"

Square Foot of Heating Surface 100

Type of Water Jacket —

Test Pressure 200 lbs/sq

Date of Test —

Name of Engineer —

Test Cocks —



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BOILERS

Works No. 176

No. of Boilers 1 Type CYLINDRICAL MULTITUBULAR MARINE

Single or Double-ended SINGLE END FIRED

No. of Furnaces in each THREE

Type of Furnaces PLAIN (WITHDRAWABLE)

Date when Plan approved 27.10.33.

Approved Working Pressure 200lbs/0"

Hydraulic Test Pressure 350lbs/0"

Date of Hydraulic Test 11-7-34

.. when Safety Valves set 29.9.34.

Pressure at which Valves were set 205lbs/0"

Date of Accumulation Test 2.10.34.

Maximum Pressure under Accumulation Test 207lbs/0"

System of Draught NATURAL SERVICE PUMP

Can Boilers be worked separately? —

Makers of Plates COLVILLE.

.. Stay Bars SCOTTISH IRON & STEEL CO LTD

.. Rivets RIVET BOLT & NUT CO LTD

.. Furnaces JOHN MARSHALL (MOTHERWELL) LTD

Greatest Internal Diam. of Boilers 15'-0³/₈"

.. Length .. 10'-9"

Square Feet of Heating Surface each Boiler 2357.

.. Grate .. 60.

No. of Safety Valves each Boiler 2. Rule Diam. 2¹/₂" Actual 3"

Are the Safety Valves fitted with Easing Gear? YES.

No. of Pressure Gauges, each Boiler 2. No. of Water Gauges 1

.. Test Cocks .. 3 .. Salinometer Cocks 1

Are the Water Gauge Pipes fitted direct to the boiler shells or connected by pipes?

Are the Water Gauge Pipes fitted direct to the boiler shells or connected by pipes?

Are these pipes connected to boilers by cocks or valves?

Are there any cocks or valves fitted on boiler shells?

No. of tanks of fresh water in each boiler

.. Tanks in each boiler

.. Tanks in each boiler

.. Tanks in each boiler

Are the rivets iron or steel?

Are the longitudinal seams butt or lap joints?

Are the butt straps single or double?

Are the double butt straps of equal width?

Thickness of outside butt straps

..

Are longitudinal seams hand or machine riveted?

Are butt straps double or triple riveted?

No. of rivets in a lap

Dist. of rivet lines

No. of rows of rivets in Centre longitudinal seams

Are these seams hand or machine riveted?

Dist. of rivet lines

No. of rows of rivets in front and transverse seams

Are these seams hand or machine riveted?

Dist. of rivet lines

No. of rows of rivets in back and transverse seams

Are these seams hand or machine riveted?

Dist. of rivet lines

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Are the Water Gauges fitted direct to the Boiler Shells or mounted on Pillars? PILLAR
 Are the Water Gauge Pillars fitted direct to the Boiler Shells or connected by Pipes? PIPES
 Are these Pipes connected to Boilers by Cocks or Valves? COCKS
 Are Blow-off Cocks or Valves fitted on Boiler Shells? VALVE
 No. of Strakes of Shell Plating in each Boiler 1
 " Plates in each Strake 2
 Thickness of Shell Plates Approved $15/16$ "
 " " in Boilers "
 Are the Rivets Iron or Steel? STEEL
 Are the Longitudinal Seams Butt or Lap Joints? BUTT
 Are the Butt Straps Single or Double? DOUBLE
 Are the Double Butt Straps of equal width? YES
 Thickness of outside Butt Straps 1"
 " inside " $1\frac{1}{8}$ "
 Are Longitudinal Seams Hand or Machine Riveted? MACHINE
 Are they Single, Double, or Treble Riveted? TREBLE
 No. of Rivets in a Pitch 5
 Diam. of Rivet Holes $13/8$ Pitch $1\frac{3}{8}$ $9\frac{1}{2}$ "
 No. of Rows of Rivets in Centre Circumferential Seams 2
 Are these Seams Hand or Machine Riveted? —
 Diam. of Rivet Holes — Pitch —
 No. of Rows of Rivets in Front End Circumferential Seams 2
 Are these Seams Hand or Machine riveted? HAND
 Diam. of Rivet Holes $1\frac{3}{8}$ " Pitch 4.099 & 4.113"
 No. of Rows of Rivets in Back End Circumferential Seams 2
 Are these Seams Hand or Machine Riveted? MACHINE
 Diam. of Rivet Holes $1\frac{3}{8}$ " Pitch 4.099 & 4.113"
 Size of Manholes in Shell 16" x 12" DOOR 19" x 15"
 Dimensions of Compensating Rings $2\frac{1}{4}$ " x $2\frac{1}{2}$ " RIVETS = $1\frac{3}{8}$ " x 40
 $15/16$ "



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Thickness of End Plates in Steam Space Approved $1\frac{1}{4}$ "

" " " " " in Boilers "

Pitch of Steam Space Stays $1'-8\frac{1}{4}" - 1'-8\frac{1}{2}" \times 1'-5" - 1'-5\frac{1}{2}"$

Diar. " " " " Approved $3\frac{3}{8}$ " Threads per Inch 6

" " " " " in Boilers " " 6

Material of " " " STEEL

How are Stays Secured? DOUBLE NUTS / INSIDE & 1- OUTSIDE.

Diar. and Thickness of Loose Washers on End Plates —

" " " Riveted " " —

Width " " " Doubling Strips " —

Thickness of Middle Back End Plates Approved $27/32$ "

" " " " " in Boilers "

Thickness of Doublings in Wide Spaces between Fireboxes —

Pitch of Stays at " " " 1- EITHER SIDE WING FURNACES.

Diar. of Stays Approved 2" Threads per Inch 6

" " " in Boilers " " 6

Material " STEEL.

Are Stays fitted with Nuts outside? YES.

Thickness of Back End Plates at Bottom Approved $27/32$ "

" " " " " in Boilers "

Pitch of Stays at Wide Spaces between Fireboxes $14\frac{1}{8}" \times 9\frac{1}{8}"$

Thickness of Doublings in " " —

Thickness of Front End Plates at Bottom Approved $29/32$ "

" " " " " in Boilers "

No. of Longitudinal Stays in Spaces between Furnaces —



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Diar. of Stays Approved — Threads per Inch —

" in Boilers —

Material " —

Thickness of Front Tube Plates Approved $29/32$ "

" " " " in Boilers "

Pitch of Stay Tubes at Spaces between Stacks of Tubes $16\frac{1}{8} \times 9$ " — OUTSIDE

Thickness of Doublings in " " " —

" Stay Tubes at " " " $5/16$ "

Are Stay Tubes fitted with Nuts at Front End? BETWEEN NESTS.

Thickness of Back Tube Plates Approved $25/32$ "

" " " in Boilers "

Pitch of Stay Tubes in Back Tube Plates $9 - 1'-1\frac{1}{2} \times 9$ "" Plain " $4\frac{1}{2} \times 4\frac{1}{2}$ "Thickness of Stay Tubes $54 - 14$ " $45 - 5/16$ "

" Plain " 288 - SWG.

External Diar. of Tubes $3\frac{1}{4}$ "

Material " LAP WELDED WROT IRON.

Thickness of Furnace Plates Approved $13/16$ "

" " " in Boilers "

Smallest outside Diar. of Furnaces $3'-7\frac{3}{8}$ "Length between Tube Plates $6'-11\frac{1}{2}$ "Width of Combustion Chambers (Front to Back) $3'-0$ "Thickness of " " Tops Approved $21/32$ "

" " " " in Boilers "

Pitch of Screwed Stays in C.C. Tops $8\frac{1}{8} \times 9$ "Diar. of Screwed Stays Approved $1\frac{1}{8}$ " Threads per Inch

" in Boilers "

Material STEEL

Thickness of Combustion Chamber Plates Approved $2\frac{1}{2}$ "

" in Boilers "

Pitch of Screwed Stays in C.C. Tops $8\frac{1}{8} \times 9$ "Diar. of Stays Approved $1\frac{1}{8}$ " Threads per Inch

" in Boilers "

Material STEEL

Thickness of Combustion Chamber Plates Approved $1\frac{1}{2}$ "

" in Boilers "

Pitch of Screwed Stays in C.C. Tops $8\frac{1}{8} \times 9$ "Diar. of Stays Approved $1\frac{1}{8}$ " Threads per Inch

" in Boilers "

Material STEEL

Are all Screwed Stays fitted with Nuts inside C.C.?

Thickness of Combustion Chamber Plates

No. of Girders over each Wing Chamber

Centre " " "

Depth and Thickness of Girders

Material of Girders

No. of Stays in C.C. Tops

Pitch of Stays in C.C. Tops

Size of Lower Flanges



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Diar. of Screwed Stays Approved $1\frac{5}{8}$ " Threads per Inch 9

" " " in Boilers " 9

Material " " STEEL.

Thickness of Combustion Chamber Sides Approved $2\frac{1}{32}$ "

" " " " in Boilers "

Pitch of Screwed Stays in C.O. Sides $9\frac{1}{8}$ " x $8\frac{1}{8}$ " x 9"

Diar. " " Approved $1\frac{5}{8}$ " Threads per Inch 9

" " " in Boilers " 9

Material " " STEEL. BETWEEN NESTS.

Thickness of Combustion Chamber Backs Approved $1\frac{1}{16}$ "

" " " " in Boilers "

Pitch of Screwed Stays in C.O. Backs $9\frac{1}{8}$ " x 9"

Diar. " " Approved $1\frac{3}{4}$ " Threads per Inch 9

" " " in Boilers " 9

Material " " STEEL.

Are all Screwed Stays fitted with Nuts inside C.O.? YES. T IRON

Thickness of Combustion Chamber Bottoms $2\frac{1}{32}$ "

No. of Girders over each Wing Chamber 4.

" " " Centre " 2.

Depth and Thickness of Girders 2-19" x $9\frac{1}{16}$ "

Material of Girders STEEL.

No. of Stays in each 3.

No. of Tubes, each Boiler 327

Size of Lower Manholes 16" x 12"

VERTICAL DONKEY BOILERS

No. of Boilers
Type
Height
Height of Boiler Crown above Fire Grate
Air Inlet Crown Flat or Dished
Internal Radius of Dished Boilers
Thickness of Plates
Description of Stays in Boiler Crown
Diar. of Holes
Pitch
Width of Overlap
Height of Boiler Crown above Fire Grate
Air Inlet Crown Flat or Dished
External Radius of Dished Crown
No. of Crown Stays
Material
Diar.
Thickness of Plates
Internal Diar. of Pipes at Top
Bottom
Thickness
No. of Water Tubes
Half Diar.
Internal of Water Tubes
Size of Manhole in Shell
Dimensions of Superheater Box
Length outside each Boiler
Clearance

SUPERHEATERS

Description of Superheaters
Type
Height
Width
Can superheaters be set on pipe boilers and working
Which boiler is connected to which superheater
No. of Tubes



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EVAPORATORS.

No.	Type	Tons per Day
—	—	—
Makers	—	—
Working Pressure	Test Pressure	Date of Test
Date of Test of Safety Valves under Steam		

FEED WATER HEATERS.

No.	Type
—	—
Makers	—
Working Pressure	Test Pressure
Date of Test	

FEED WATER FILTERS.

No.	Type	Size
—	—	—
Makers	—	—
Working Pressure	Test Pressure	Date of Test

LIST OF DONKEY PUMPS.

BALLAST PUMP DAWSON & DOWNIE 7" x 8" x 8" N^o 11438

SUCTIONS:- BILGE LINE DIRECT BILGE, TANKS, SEA.

DISCHARGES:- OVERBOARD, TANKS, CONDENSER,

CIR. PUMP AMOS & SMITH.

" ENGINE " " 6" BORE.

GENERAL SERVICE PUMP DAWSON & DOWNIE 6" x 4" x 6" N^o 11437.

SUCTIONS:- EXHAUST TANK, BOILER, HOTWELL, TANKS, AFT PEAK SEA.

DISCHARGES:- BOILER EXHAUST TANK, DECK, SANITARY, TANK.

DYNAMO ENGINE SUNDERLAND FORGE & ENG CO LTD F808.

STEERING ENGINE REID PAISLEY.



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REFRIGERATORS.

No. of Machines _____ Capacity of each _____
 Makers _____
 Description _____

No. of Steam Cylinders, each Machine _____ No. of Compressors _____ No. of Cranks _____

Particulars of Pumps in connection with Refrigerating Plant and whether worked by Refrigerating Machines
 or Independently _____

12 GAUGE GLASSES
 A QUANTITY OF ASSORTED IRON
 1 ESCAPE VALVE SPRING FOR EACH SIDE
 SYSTEM OF REFRIGERATION
 INSULATION

System of Refrigeration _____

Insulation _____

Are Brine and other Regulating Valves placed so as to be accessible without entering the Insulated
 Spaces? _____

Are all Pipes, Air Trunks, &c., well secured and protected from risk of damage? _____

Are all Bilge, Sounding, and Air Pipes in Insulated Spaces properly insulated? _____

Are Thermometer Tubes so arranged that Water cannot enter and freeze in them? _____

Date of Test under Working Conditions _____

RESULTS OF TRIALS.

COMPARTMENT.	Temp. at beginning of Trial.	Temp. at end of Trial.	Time required to obtain this Result.	Rise of Temp. after hours.
FORECASTLE	14	12	12	12
CABIN	24	17	12	12
NAVIGATION	6	3/106	12	12
FRIDGE	21	3/106	12	12

Articles of Spare Gear for Refrigerating Plant carried on board:—



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Installation Fitted by **JOHN LEWIS & SONS LTD**
 No. and Description of Dynamos **1 - 4 POLE SEMI-ENCLOSED COMPOUND, N° 163211**
 Makers of Dynamos **SUNDERLAND FORGE & ENG CO LTD**
 Capacity " **5.1 KW 45 Amperes, at 110. Volts, 430. Revols. per Min.**
 Current Alternating or Continuous **CONTINUOUS.**
 Single or Double Wire System **DOUBLE WIRE SYSTEM.**
 Position of Dynamos **STAR BOARD SIDE AFT END ON PLATFORM IN ENGINE ROOM**
 " Main Switch Board " " " " " **BULLHEAD** " " "
 No. of Circuits to which Switches are provided on Main Switch Board **4.**

Particulars of these Circuits:—

Circuit.	Number of Lights.	Candle Power.	Current Required. Amps.	Size of Conductor.	MAX Current Capacity	Conductivity of Conductor.	Insulation Resistance per Mile.
FORECASTLE	14.	—	5.	3/036	12.	ARM. 98.	
CABIN.	24.	—	7	7/029	17.	" "	
NAVIGATION	6.	—	3	3/036	12	" "	
ER & AFT.	21.	—	8.5.	3/036	12	" "	

Total No. of Lights **65** No. of Motors driving Fans, &c. _____ No. of Heaters _____

Current required for Motors and Heaters _____

Positions of Auxiliary Switch Boards, with No. of Switches on each

(Faint, mirrored text from the reverse side of the page, including "ELECTRICAL LIGHTING", "Installation fitted by", "No. and Description of Circuits", "Makers of Dynamos", "Capacity", "Currents Alternating or Continuous", "Single or Double Wire System", "Location of Dynamos", "Main Switch Board", "No. of Circuits to which Switches are provided on Main Switch Board", "Particulars of these Circuits")

Particulars of these Circuits	Number of Lamps	Current (Amps)	Current (Volts)	Size of Conductor	M.A. Capacity	Insulation
Are Out-outs fitted as follows?—						
On Main Switch Board, to Cables of Main Circuits	14	2	—	3/02		
On Aux. " " each Auxiliary Circuit	2	1	—	3/02		
Wherever a Cable is reduced in size	2	2	—	3/02		
To each Lamp Circuit			—			
To both Flow and Return Wires of all Circuits when the Double-Wire System is adopted			—			
Are the Fuses of Standard Sizes?			—			
Are all Switches and Out-outs constructed of Non-inflammable Material?			—			
Are they placed so as to be always and easily accessible?			—			
Smallest Single Wire used, No. 3/02 S.W.G., Largest, No. 7/02 S.W.G.			—			
How are Conductors in Engine and Boiler Spaces protected?			—			
" " Saloons, State Rooms, &c., " ?			—			
What special protection is provided in the following cases?—			—			
(1) Conductors exposed to Heat or Damp			—			
(2) " " passing through Bunkers or Cargo Spaces			—			
(3) " " Deck Beams or Bulkheads			—			

Are all Joints in Cables properly soldered and thoroughly Insulated so that the efficiency of the Cables

is unimpaired? **YES.**

Are all Joints in accessible positions, none being made in Bunkers or Cargo Spaces? **—**

Are all Hull Connections for Single-Wire Systems made with Screws of large Surface? **—**

Are the Dynamos, Motors, Main and Branch Cables, so placed that the Compasses are not injuriously affected by them? **YES.**

Have Tests been made to prove that this condition has been satisfactorily fulfilled? **Yes**

Has the Insulation Resistance over the whole system been tested? **Yes**

What does the Resistance amount to? **2000000 Ohms.**

Is the Installation supplied with a Voltmeter? **Yes.**

" " " an Ampere Meter **Yes.**

Date of Trial of complete Installation **2-10-34** Duration of Trial **6 HOURS**

Have all the requirements of Section 44 been satisfactorily carried out? **Yes.**

Robert H. Greig



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GENERAL CONSTRUCTION.

Have the Machinery and Boilers been constructed in accordance with the requirements of the Rules and the

Approved Plans? **YES.**

If not, give details of the points of difference, and state when these were sanctioned by the Chief

Surveyor. **—**

Have all joints in Castles, Frames, Main and Branch Castles, no plates that the Castles are

affected by them? **YES**

Have tests been made to prove that the condition has been satisfactorily fulfilled? **YES**

Has the Inspection Testers over the whole system been tested? **YES**

What does the Testers amount to?

Is the Installation supplied with a Venturi? **YES**

as required? **YES**

Date of final or complete installation? **15-10-34**

Have all the requirements of Section 4 been satisfactorily carried out? **YES**

Are the Materials used in the Construction of Engines and Boilers, so far as could be seen, sound and

trustworthy? **YES.**

Is the Workmanship throughout thoroughly satisfactory? **YES.**

The above correctly describes the Machinery of the S.S. "PORTAVOGIE"

as ascertained by **me** from personal examination

Robert H. Craig
 Engineer Surveyor to the British Corporation Register
 of Shipping and Aircraft.

Fees—

MAIN BOILERS.		£	s.	d.
H.S.	Sq. ft.	:	:	:
G.S.	"	:	:	:
DONKEY BOILERS.				
H.S.	Sq. ft.	:	:	:
G.S.	"	:	:	:
		£	:	:
ENGINES.				
L.P.O.	Cub. ft.	:	:	:
		£	:	:
Testing, &c. ...		:	:	:
		£	:	:
Expenses ...		:	:	:
Total ...	£	:	:	:

It is submitted that this Report be approved,

Robert H. Craig
 Chief Surveyor.

19 DEC 1934

Approved by the Committee for the Class of M.B.S.* on the 19th December 1934

Fees advised

Fees paid



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 Secretary.

GENERAL CONSTRUCTION

Have you... (mirrored text)

Yes

If not... (mirrored text)

U.S. ... (mirrored text)

It is admitted that this report be approved

and more... (mirrored text)

Approved for the Committee for the Class of M.B.S. on the 14th December 1954

It is admitted that this report be approved

and more... (mirrored text)

Approved for the Committee for the Class of M.B.S. on the 14th December 1954



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