

No. 1999

THE BRITISH CORPORATION FOR THE SURVEY
AND
REGISTRY OF SHIPPING.

Report No. 1825 No. in Register Book 3134

Stavros
" ASHLEIGH "
S.S.

Makers of Engines *Richardsons Westgarth & Co. Ltd.*

Works No. 264th

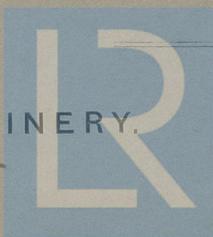
Makers of Main Boilers *Richardsons Westgarth & Co. Ltd.*

Works No. 264th

Makers of Donkey Boiler

Works No.

MACHINERY



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No.

THE BRITISH CORPORATION FOR THE SURVEY
AND
REGISTRY OF SHIPPING.

Report No. No. in Register Book

Received at Head Office

9th April 1925

Surveyor's Report on the New Engines, Boilers, and Auxiliary
Machinery of the ~~Twin Quadruple~~ ^{Single Triple} Screw Steamer,
"ASHLEIGH"

Official No. 148560, Port of Registry London.

Registered Owners

Latem P. L. Co. Ltd.

Engines Built by

Richardsons Westgarth & Co. Ltd.

at

Hartlepool.

Main Boilers Built by

Richardsons Westgarth & Co. Ltd.

at

Hartlepool.

Donkey " " "

at

Date of Completion

3-25.

First Visit 10-th-24

Last Visit

2-3-25

Total Visits

45.



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RECIPROCATING ENGINES

Works No.

2647

No. of Sets

1

Description

Triple expansion.
S.C. 3 Cyls.

No. of Cylinders each Engine

3

No. of Cranks

3

Diars. of Cylinders

27" - 45" - 75"

Stroke 51"

Cubic feet in each L.P. Cylinder

130

Are Spring-loaded Relief Valves fitted to Top and Bottom of each Cylr.?

Yes.

" " " each Receiver?

Yes.

Type of H.P. Valves,

Piston
Slide.

" 1st I.P. "

" 2nd I.P. "

" L.P. "

" Valve Gear

Slide
Stephenson Link.

" Condenser

Built:
" "

Cooling Surface 3500 sq. ft.

Diameter of Piston Rods (plain part)

4"

Screwed part (bottom of thread)

Material

Steel
" 1/2"

Diar. of Connecting Rods (smallest part)

4 1/2"

Material

Steel.

" Crosshead Gudgeons

4 3/4"

Length of Bearing

8"

Material

Steel.

No. of Crosshead Bolts (each)

4

Diar. over Thrd

2 3/4"

Threads per inch

6

Material

Steel.

" Crank Pin " "

2

" 3 3/4"

" 6

" "

" Main Bearings

6

Lengths

15"

" Bolts in each

2

Diar. over Thread

3 1/4"

Threads per inch

6

Material

Steel.

" Holding Down Bolts, each Engine

5-2 at 1 3/8"

4-6 at 1 1/2"

4-4 at 1 1/2"

No. of Metal Chocks

102

Are the Engines bolted to the Tank Top or to a Built Seat?

Tank top.

Are the Bolts tapped through the Tank Top and fitted with Nuts Inside?

Yes.

If not, how are they fitted?

Connecting Rods, Forged by

Yulehoffnungshutte.

Piston

Crossheads,

Connecting Rods, Finished by

R.W. Wood

Piston

Crossheads,

Date of Harbour Trial

13-2-25.

" Trial Trip

2-3-25.

Trials run at

From Wood to Blyth.

Were the Engines tested to full power under Sea-going conditions?

Yes.

If so, what was the I.H.P.?

2898

Revs. per min.

96

Pressure in 1st I.P. Receiver,

43 lbs., 2nd I.P.,

lbs., L.P., 8

lbs., Vacuum, 28 ins.

Speed on Trial

12 1/4"

If the Conditions on Trial were such that full power records were not obtained give the following estimated

data:—

Builders' estimated I.H.P.

Revs. per min.

Estimated Speed



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TURBINE ENGINES.

Works No. Type of Turbines

No. of H.P. Turbines No. of I.P. No. of L.P. No. of Stern

Are the Propeller Shafts driven direct by the Turbines or through Gearing?

Is Single or Double Reduction Gear employed?

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

Estimated Pressure per lineal inch

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

Estimated Pressure per lineal inch

Revs. per min. of H.P. Turbines at Full Power S.H.P.

If the Conditions on Trial were such that full power could be obtained give the following

" " L.P. " " "

" " 1st Reduction Shaft

" " 2nd " "

" " Propeller Shaft

Total Shaft Horse Power

Date of Harbour Trial

" Trial Trip

Trials run at

Speed on Trial Knots. Propeller Revols. per min. S.H.P.

Turbine Spindles forged by

" Wheels forged or cast by

Reduction Gear Shafts forged by

" Wheels forged or cast by

TURBO-ELECTRIC PROPPELLER MACHINERY DESCRIPTION OF INSTALLATION.

No. of Turbo-Generating Sets

Type of Turbine employed

Description of Generator

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

Diar. of 1st Reduction Pinion

" 1st " Wheel } Width Pitch of Teeth

Diar. of 2nd Reduction Pinion

" 2nd " Wheel } Width Pitch of Teeth

Estimated Pressure per lineal inch

Revs. per min. of Generator at Full Power

Date of Harbour Trial

" Trial Trip

Trials run at

Speed on Trial Knots. Propeller Revols. per min. S.H.P.



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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.



SHAFTING.

Are the Crank Shafts Built or Solid? *built.*

No. of Lengths in each *6* Angle of Cranks *120°*

Diar. by Rule *14.196* Actual *14 5/8* In Way of Webs *15"*

" of Crank Pins *15"* Length between Webs *15 1/4"*

Greatest Width of Crank Webs *29"* Thickness *9 3/8"*

Least " " *22 5/8"* " " " " " "

Diar. of Keys in Crank Webs *3 1/2"* Length *9"*

" Dowels in Crank Pins *2 1/2* Length *9"* Screwed or Plain *plain.*

No. of Bolts each Coupling *9* Diar. at Mid Length *3"* Diar. of Pitch Circle *20 1/2"*

Greatest Distance from Edge of Main Bearing to Crank Web *1 1/4"*

Type of Thrust Blocks *Horseshoe.*

No. " Rings *8*

Diar. of Thrust Shafts at bottom of Collars *15 1/4"* No. of Collars *8*

" " Forward Coupling *14 5/8"* At Aft Coupling *13 3/4"*

Diar. of Intermediate Shafting by Rule *13.52* Actual *13 3/4"* No. of Lengths *6*

No. of Bolts, each Coupling *9* Diar. at Mid Length *3"* Diar. of Pitch Circle *20 1/2"*

Diar. of Propeller Shafts by Rule *14.99* Actual *15 1/2"* At Couplings *14 5/8"*

Are Propeller Shafts fitted with Continuous Brass Liners? *yes.*

Diar. over Liners *17 1/8" 11 1/4"* Length of After Bearings *5'-2"*

Of what Material are the After Bearings composed? *Lignum Vitae.*

Are Means provided for lubricating the After Bearings with Oil? *no.*

" " to prevent Sea Water entering the Stern Tubes? *no.*

If so, what Type is adopted? *✓*

SKETCH OF CRANK SHAFT.

Handwritten sketches and notes on the right page, including a sketch of a crank shaft and various measurements and annotations.

STAMP MARKS ON SHAFTS.

Stamp: No. 1000, 20-1-24, T.O. 2

Stamp: No. 1000, 20-1-24, T.O. 2

Stamp: No. 1000, 20-1-24, T.O. 2

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BOILERS.

Works No. *264th*

No. of Boilers *3* Type *Cylindrical multitubular single.*

Single or Double-ended

No. of Furnaces in each *3*

Type of Furnaces *slighton.*

Date when Plan approved *31-5-24.*

Approved Working Pressure *180 lbs.*

Hydraulic Test Pressure *320 lbs.*

Date of Hydraulic Test *11-10-24.*

„ when Safety Valves set *13-2-25.*

Pressure at which Valves were set *185 lbs.*

Date of Accumulation Test *13-2-25.*

Maximum Pressure under Accumulation Test *188 lbs.*

System of Draught *Howdens C.A.*

Can Boilers be worked separately? *Yps.*

Makers of Plates *D. Colville Sons.*

„ Stay Bars *D. Colville Sons.*

„ Rivets *R. B. & Nut Co.*

„ Furnaces *Leeds Forge Co.*

Greatest Internal Diam. of Boilers *15'-6 1/2*

„ „ Length „ *11'-10 25/32*

Square Feet of Heating Surface each Boiler *286^{sq} ft*

„ „ Grate „ „ *62.55^{sq} ft*

No. of Safety Valves each Boiler *2* Rule Diam. Actual *4*

Are the Safety Valves fitted with Easing Gear? *Yps.*

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

„ Test Cocks „ *3* „ Salinometer Cocks *1*

William

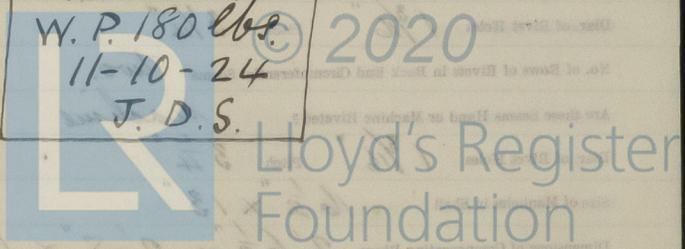
W.P. 180 lbs.

11-10-24

J.D.S.

Test Mark on Boilers:-

B.C. TEST
 No 4th 56
 320 lbs
 W.P. 180 lbs
 11-10-24
 J.D.S.



Are the Water Gauges fitted direct to the Boiler Shells or mounted on Pillars? *Pillars.*

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? *valves.*

No. of Strakes of Shell Plating in each Boiler *one.*

Plates in each Strake *two.*

Thickness of Shell Plates Approved *1 1/4"*

in Boilers *1 1/4"*

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 3/32"*

inside *1 3/32"*

Are Longitudinal Seams Hand or Machine Riveted? *machine.*

Are they Single, Double, or Treble Riveted? *treble.*

No. of Rivets in a Pitch *5*

Diar. of Rivet Holes *1 1/4"* Pitch *8 1/2"*

No. of Rows of Rivets in Centre Circumferential Seams *✓*

Are these Seams Hand or Machine Riveted? *✓*

Diar. of Rivet Holes *✓* Pitch *✓*

No. of Rows of Rivets in Front End Circumferential Seams *two.*

Are these Seams Hand or Machine riveted? *hand.*

Diar. of Rivet Holes *1 3/16"* Pitch *3 1/4"*

No. of Rows of Rivets in Back End Circumferential Seams *two.*

Are these Seams Hand or Machine Riveted? *machine.*

Diar. of Rivet Holes *1 3/16"* Pitch *3 1/4"*

Size of Manholes in Shell *16 1/2" x 13"*

Dimensions of Compensating Rings *2'-6 1/2" x 2'-5" x 1 1/4"*



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Thickness of End Plates in Steam Space Approved

 $1\frac{1}{32}$ "

" " " " " in Boilers

 $1\frac{1}{32}$ "

Pitch of Steam Space Stays

 $22\frac{1}{2}$ " x $15\frac{1}{2}$ "Diar. " " " " Approved $3\frac{1}{4}$ " Threads per Inch 6" " " " " in Boilers $3\frac{1}{4}$ " " 6

Material of " " "

steel.

How are Stays Secured?

double-nuts washers.

Diar. and Thickness of Loose Washers on End Plates

✓

" " Riveted " " "

✓

Width " " Doubling Strips "

✓

Thickness of Middle Back End Plates Approved

✓

" " " " " in Boilers

✓

Thickness of Doublings in Wide Spaces between Fireboxes

✓

Pitch of Stays at

 $13\frac{1}{2}$ " x 8"Diar. of Stays Approved $2\frac{1}{4}$ " Threads per Inch 9" " in Boilers $2\frac{1}{4}$ " " 9

Material "

steel.

Are Stays fitted with Nuts outside?

y/s.

Thickness of Back End Plates at Bottom Approved

 $13\frac{1}{16}$ "

" " " " " in Boilers

 $13\frac{1}{16}$ "

Pitch of Stays at Wide Spaces between Fireboxes

 $13\frac{1}{2}$ " x 8"

Thickness of Doublings in " "

 $5\frac{1}{8}$ "

Thickness of Front End Plates at Bottom Approved

 $27\frac{1}{32}$ "

" " " " " in Boilers

 $27\frac{1}{32}$ "

No. of Longitudinal Stays in Spaces between Furnaces

one



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Diar. of Stays Approved $2\frac{3}{4}$ " Threads per Inch 6
 " " in Boilers $2\frac{3}{4}$ " " 6
 Material ,, *steel.*

Thickness of Front Tube Plates Approved $27/32$ "
 " " " " in Boilers $27/32$ "

Pitch of Stay Tubes at Spaces between Stacks of Tubes $18\frac{1}{2} \times 4\frac{1}{2}$ "

Thickness of Doublings in " " "
 " Stay Tubes at " " " $5/16 + 3/8$ "

Are Stay Tubes fitted with Nuts at Front End? *yes.*

Thickness of Back Tube Plates Approved *Centre* $13/16$ " *wings* $3/4$ "
 " " " in Boilers " $13/16$ " " $3/4$ "

Pitch of Stay Tubes in Back Tube Plates $11\frac{1}{4} \times 4\frac{1}{2}$ "
 " Plain " $3\frac{3}{4} \times 3\frac{3}{4}$ "
 Thickness of Stay Tubes $5/16, 3/8 + 1/2$ "

" Plain " *8 W.L.*

External Diar. of Tubes $2\frac{1}{2}$ "

Material ,, *iron.*

Thickness of Furnace Plates Approved $19/32$ "
 " " " in Boilers $19/32$ "

Smallest outside Diar. of Furnaces $3'-10\frac{1}{16}$ "

Length between Tube Plates $8'-4$ "

Width of Combustion Chambers (Front to Back) $2'-9\frac{9}{32}$ "

Thickness of " " Tops Approved *Centre* $2\frac{1}{32}$ " *wings* $1/16$ "
 " " " in Boilers " $2\frac{1}{32}$ " " $1/16$ "

Pitch of Screwed Stays in C.C. Tops *wings* $10" \times 9"$ *Centre* $10 \times 8"$



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

" " " in Boilers $1\frac{3}{4}$ "

Material " " *steel.*

Thickness of Combustion Chamber Sides Approved $2\frac{3}{32}$ "

" " " " in Boilers $2\frac{3}{32}$ "

Pitch of Screwed Stays in C.C. Sides 10×8

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

" " " in Boilers $1\frac{3}{4}$ "

Material " " *steel.*

Thickness of Combustion Chamber Backs Approved $1\frac{9}{32}$ "

" " " " in Boilers $1\frac{9}{32}$ "

Pitch of Screwed Stays in C.C. Backs $8\frac{1}{4} \times 8$

Diar. " " Approved $2\frac{1}{4} \times 1\frac{1}{2}$ " Threads per Inch 9

" " " in Boilers $2\frac{1}{4} \times 1\frac{1}{2}$ "

Material " " *steel.*

Are all Screwed Stays fitted with Nuts inside C.O.? *yes.*

Thickness of Combustion Chamber Bottoms $2\frac{3}{32}$ "

No. of Girders over each Wing Chamber 5

" " " Centre " 4

Depth and Thickness of Girders $8\frac{3}{8} \times 1\frac{1}{2}$ "

Material of Girders *steel.*

No. of Stays in each 2

No. of Tubes, each Boiler 434.

Size of Lower Manholes 16×12 "

VERTICAL DONKEY BOILERS

No. of Boilers	Type	Height of Boiler Crown above the Grate	Area of Water Table	Material of Water Table	Size of Manhole in Shell	Description of Combustion Chamber	Height of Water Table	Material of Water Table	Thickness of Water Table	Internal Dia. of Firebox at Top	Bottom	Thickness of Plate	No. of Crown Stays	Dia.	Material	

SUPERHEATERS

Description of Superheater	Weight of Superheater	Water surface?	What surface?	No. of Safety Valves on each superheater	Date of Hydrostatic Test	Last time tested



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VERTICAL DONKEY BOILERS.

No. of Boilers	Type		
Greatest Int. Diar.		Height	
Height of Boiler Crown above Fire Grate			
Are Boiler Crowns Flat or Dished?			
Internal Radius of Dished Ends		Thickness of Plates	
Description of Seams in Boiler Crowns			
Diar. of Rivet Holes	Pitch	Width of Overlap	
Height of Firebox Crowns above Fire Grate			
Are Firebox Crowns Flat or Dished?			
External Radius of Dished Crowns		Thickness of Plates	
No. of Crown Stays	Diar.	Material	
External Diar. of Firebox at Top		Bottom	Thickness of Plates
No. of Water Tubes	Ext. Diar.	Thickness	
Material of Water Tubes			
Size of Manhole in Shell			
Dimensions of Compensating Ring			
Heating Surface, each Boiler		Grate Surface	

SUPERHEATERS.

Description of Superheaters

Where situated?

Which Boilers are connected to Superheaters?

Can Superheaters be shut off while Boilers are working?

No. of Safety Valves on each Superheater

Are " " fitted with Easing Gear?

Date of Hydraulic Test

Date when Safety Valves set

MAIN STEAM PIPES

No. of Boilers			
Material			
Internal Diar.			
Thickness			
Date of Hydraulic Test			
Test Pressure			
No. of Boilers			
Material			
Internal Diar.			
Thickness			
Date of Hydraulic Test			
Test Pressure			



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MAIN STEAM PIPES.

No. of Lengths
 Material
 Brazed, Welded or Seamless
 Internal Diam.
 Thickness
 How are Flanges secured?
 Date of Hydraulic Test
 Test Pressure

2	3
Copper.	Copper.
S.D.	S.D.
5"	5"
4 W.S.	4 W.S.
braced.	braced.
18-12-24	11-2-25
400 lbs.	400 lbs.

No. of Lengths
 Material
 Brazed, Welded or Seamless
 Internal Diam.
 Thickness
 How are Flanges secured?
 Date of Hydraulic Test
 Test Pressure

No. of Lengths
 Material
 Brazed, Welded or Seamless
 Internal Diam.
 Thickness
 How are Flanges secured?
 Date of Hydraulic Test
 Test Pressure



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EVAPORATORS.

No. 4042 Type *Horison.* 30 Tons per Day
 Makers *Richardsons Westgarth Co. Ltd.*
 Working Pressure *15 lbs.* Test Pressure *50 lbs.* Date of Test *21-7-24*
 Date of Test of Safety Valves under Steam *13-2-25.*

FEED WATER HEATERS.

No. 946 Type *Surface.*
 Makers *Richardsons Westgarth Co. Ltd.*
 Working Pressure Test Pressure *50 lbs.* Date of Test *23-1-25.*

FEED WATER FILTERS.

No. Type *Cascade no 5.* Size *nos.*
 Makers *Richardson Westgarth Co. Ltd.*
 Working Pressure Test Pressure Date of Test

LIST OF DONKEY PUMPS.

2 Weirs. Independent. 10 1/2 x 8" x 22"
Lamont-Duplex. Baller 10" x 13" x 12"
General Service. 8 x 8 x 6"



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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

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.
Hold	30.0	20.0	10	
Boiler Room	10.0	10.0		
Engine Room	20.0	20.0		
Galley	15.0	15.0		
Stowage Room	20.0	20.0		
Deck	15.0	15.0		
Water Tank	10.0	10.0		
Oil Tank	20.0	20.0		
Coal Bunker	15.0	15.0		
Hold	30.0	20.0	10	
Boiler Room	10.0	10.0		
Engine Room	20.0	20.0		
Galley	15.0	15.0		
Stowage Room	20.0	20.0		
Deck	15.0	15.0		
Water Tank	10.0	10.0		
Oil Tank	20.0	20.0		
Coal Bunker	15.0	15.0		

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

Cylinders
 20.5
 20.6
 20.7



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ELECTRIC LIGHTING.

Installation Fitted by

Yurness S.B. Co. Ltd.

No. and Description of Dynamo

1 Compound wound 12 Kw.

Makers of Dynamos

Sunderland Forge & Eng'g Co.

Capacity

109. Amperes, at 110 Volts, 340 Revols. per Min.

Current Alternating or Continuous

Continuous

Single or Double Wire System

Double.

Position of Dynamos

Engine Room, Starting platform.

" Main Switch Board

" " Stores Bulkhead.

No. of Circuits to which Switches are provided on Main Switch Board

6

Particulars of these Circuits:—

Circuit.	Number of Lights.	Candle Power.	Current Required. Amps.	Size of Conductor.	Current Density.	Conductivity of Conductor.	Insulation Resistance per Mile.
no 1.	3	300 W	18.6	7/036	2714"	100%	600kg
no 2.	5	16 C.P.					
Engine Room	22	30 W	9.7	7/044	1000"	"	"
no 3	27	30 W					
Aft.	1	32 C.P.					
no 3.	1	16 "	14	7/044	1700"	"	"
no 3.	2	200 W					
Cargo & Anchor	25	16 C.P.	13	7/044	1300"	"	"
no 4	-	-					
Wireless	-	-	6.5	7/044	700"	"	"
no 5.	5	100 W					
Navigation	6	8 C.P.	20	7/044	2000"	"	"
no 6.	1	30 W					
Midship	6	60 W	20	7/044	2000"	"	"
	64	30 W					
	2	16 C.P.					

Total No. of Lights

140

No. of Motors driving Fans, &c.

No. of Heaters

Current required for Motors and Heaters

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.

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.

"ASHLEIGH"

as ascertained by ^{me} from personal examination

J. W. Stephenson
 Engineer Surveyor to the British Corporation for the
 Survey and Registry of Shipping.

Fees—

MAIN BOILERS.		£	s.	d.
H.S.	<i>8601</i> Sq. ft.	:	:	:
G.S.	<i>184.65</i> "	:	:	:
DONKEY BOILERS.				
H.S.	- Sq. ft.	:	:	:
G.S.	- "	:	:	:
		£	:	:
ENGINES.				
L.P.C.	<i>130</i> Cub. ft.	:	:	:
		£	:	:
Testing, &c.	...	:	:	:
		£	:	:
Expenses	...	:	:	:
Total ...		£	:	:

It is submitted that this Report be approved,

Walter King
 Chief Surveyor.

Approved by the Committee for the Class of M.B.S.* on the

6th May 1925

Fees advised

Fees paid



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 Foundation
 Secretary

W. J. ...

TABLE

MAIN PORTS

1871-72

DOCKERY PORTS

1871-72

EXPORTS

1871-72

1871-72

EXPORTS

EXPORTS

Total

It is submitted that this Report is approved

and cannot be taken as an indication of the views of the Committee

Approved by the Committee for the Glass of M.B.S. on the

LEIGH

For advised

For paid



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