

No. 2048

TRANSFERRED TO:
L. R. SYSTEM

THE BRITISH CORPORATION FOR THE SURVEY
AND
REGISTRY OF SHIPPING.

Report No. *1874* No. in Register Book *3188*

TRANSFERRED TO:
L. R. SYSTEM

S.S. "SOUTHERN WAVE" *805*

Makers of Engines *Smith's Dock Co. Ltd.*

Works No. *274.*

Makers of Main Boilers *Nawthorn Leslie & Co. Ltd.*

Works No. *8863.*

Makers of Donkey Boiler *✓*

Works No. *✓*

MACHINERY.



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002109-002118-0215

No.

THE BRITISH CORPORATION FOR THE SURVEY
AND
REGISTRY OF SHIPPING.

Report No. *1874* No. in Register Book *3188*

Received at Head Office

28th October 1925

Surveyor's Report on the *Neto* Engines, Boilers, and Auxiliary
Machinery of the *Single Triple Screw* *Whaler*

"Panther Whaler"

Official No. *147319*

Port of Registry

Liverpool

Registered Owners

The Panther Whaling & Fishing Co. Ltd.

Engines Built by

Crichton Dock Co. Ltd.

at

South Bank-on-Tyne

Main Boilers Built by

Sawthorn & Leslie Co. Ltd.

at

Newcastle-on-Tyne

Donkey

at

Date of Completion

7-25

First Visit

17-2-25

Last Visit

30-7-25

Total Visits

45

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RECIPROCATING ENGINES.

Works No. 274 No. of Sets 1 Description Triple expansion.
C.C. 3 series.

No. of Cylinders each Engine 3 No. of Cranks 3
Diars. of Cylinders 16"-26"-43" Stroke 26"
Cubic feet in each L.P. Cylinder 21.8

Are Spring-loaded Relief Valves fitted to Top and Bottom of each Cyl.? *yes.*

" " " each Receiver? *yes.*

Type of H.P. Valves,

" 1st I.P. "

" 2nd I.P. "

" L.P. "

" Valve Gear

" Condenser

Diameter of Piston Rods (plain part) 4 1/2" Screwed part (bottom of thread) 3.16"

Material " Mild steel.

Diars. of Connecting Rods (smallest part) 4 1/4" Material *Ins.*

" Crosshead Gudgeons 4 3/4" Length of Bearing 5 3/16" Material "

No. of Crosshead Bolts (each) 4 Diars. over Thrd. 2 1/8" Thds. per inch 8 Material *Ins.*

" Crank Pin " " 2 5/8" " 6 " "

" Main Bearings 6 Lengths 10 7/8" " "

" Bolts in each 2 Diars. over Thread 2 3/8" Threads per inch 6 Material *Ins.*

" Holding Down Bolts, each Engine 70 Diars. 1 1/4" No. of Metal Chocks 70

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

Piston " "

Crossheads, " "

Connecting Rods, Finished by

Piston " "

Crossheads, " "

Date of Harbour Trial

" Trial Trip

Trials run at

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

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

Pressure in 1st I.P. Receiver, 59 lbs., 2nd I.P., " lbs., L.P., 11 lbs., Vacuum, 25 ins.

Speed on Trial 13.6 knots.

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

data:—

Builders' estimated I.H.P.

Estimated Speed

Brown Bros.
Life Longdon.
Brown Bros.
Cuntho Wks.

24-7-25

30-7-25

Between Isles, Cymr.

Revs. per min. 156

1138

13.6 knots.



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TURBINE ENGINES.

Works No. Type of Turbines
 No. of H.P. Turbines No. of L.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?

Diam. of 1st Reduction Pinion

" 1st " Wheel

Estimated Pressure per lineal inch

Diam. of 2nd Reduction Pinion

" 2nd " Wheel

Estimated Pressure per lineal inch

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

S.H.P.

" " I.P. " "

" " 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 Revs. per min.

S.H.P.

Turbine Spindles forged by

" Wheels forged or cast by

Reduction Gear Shafts forged by

" Wheels forged or cast by

DESCRIPTION OF INSTALLATION.

No. of Turbo-Generating Sets Capacity of each

Type of Turbine employed

Description of Connections

No. of Motors driving Propeller Shafts

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

" 1st " Wheel

Estimated Pressure per lineal inch

Diam. of 2nd Reduction Pinion

" 2nd " Wheel

Estimated Pressure per lineal inch

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

" " I.P. " "

" " 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 Revs. per min.

S.H.P.

Turbine Spindles forged by

" Wheels forged or cast by

Reduction Gear Shafts forged by

" Wheels forged or cast by



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SHAFTING.

Are the Crank Shafts Built or Solid?

Built.

No. of Lengths in each

4

Angle of Cranks

120°

Diar. by Rule

Actual

8½"

In Way of Webs

8¾"

" of Crank Pins

8¾"

Length between Webs

11"

Greatest Width of Crank Webs

24"

Thickness

5¼"

Least

13"

"

"

Diar. of Keys in Crank Webs

1½"

Length

4"

" Dowels in Crank Pins

1"

Length

3½"

Screwed or Plain

Plain.

No. of Bolts each Coupling

6

Diar. at Mid Length

2"

Diar. of Pitch Circle

12½"

Greatest Distance from Edge of Main Bearing to Crank Web

3/16"

Type of Thrust Blocks

Kameshae.

No. " Rings

6.

Diar. of Thrust Shafts at bottom of Collars

8½"

No. of Collars

6

" " Forward Coupling

8½"

At Aft Coupling

8½"

Diar. of Intermediate Shafting by Rule

Actual

No. of Lengths

No. of Bolts, each Coupling

Diar. at Mid Length

Diar. of Pitch Circle

Diar. of Propeller Shafts by Rule

Actual

8¾"

At Couplings

8½"

Are Propeller Shafts fitted with Continuous Brass Liners?

Continuous.

Diar. over Liners

10"

Length of After Bearings

4'-0½"

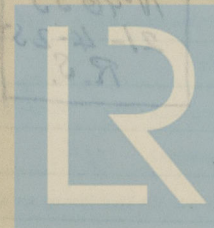
Of what Material are the After Bearings composed?

Are Means provided for lubricating the After Bearings with Oil?

" " to prevent Sea Water entering the Stern Tubes?

If so, what Type is adopted?

SKETCH OF CRANK SHAFT.



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Propeller C.S. 8/30

No. of Blades each Propeller *4* Fitted or Solid? *solid*
 Material of Blades *Semi-steel* Boss *Semi-steel*
 Diam. of Propellers *10'-0"* Pitch *9'-5"* Surface (each) *440* S. ft.
 Coefficient of Displacement of Vessel at $\frac{1}{2}$ Moulded Depth

Crank Shafts Forged by

Y&G Forge Co. Material *L.S.*

" Pins "

" Webs "

Thrust Shafts "

Intermed. " "

Propeller " "

Crank " Finished by

Thrust " "

Intermed. " "

Propeller " "

STAMP MARKS ON SHAFTS.

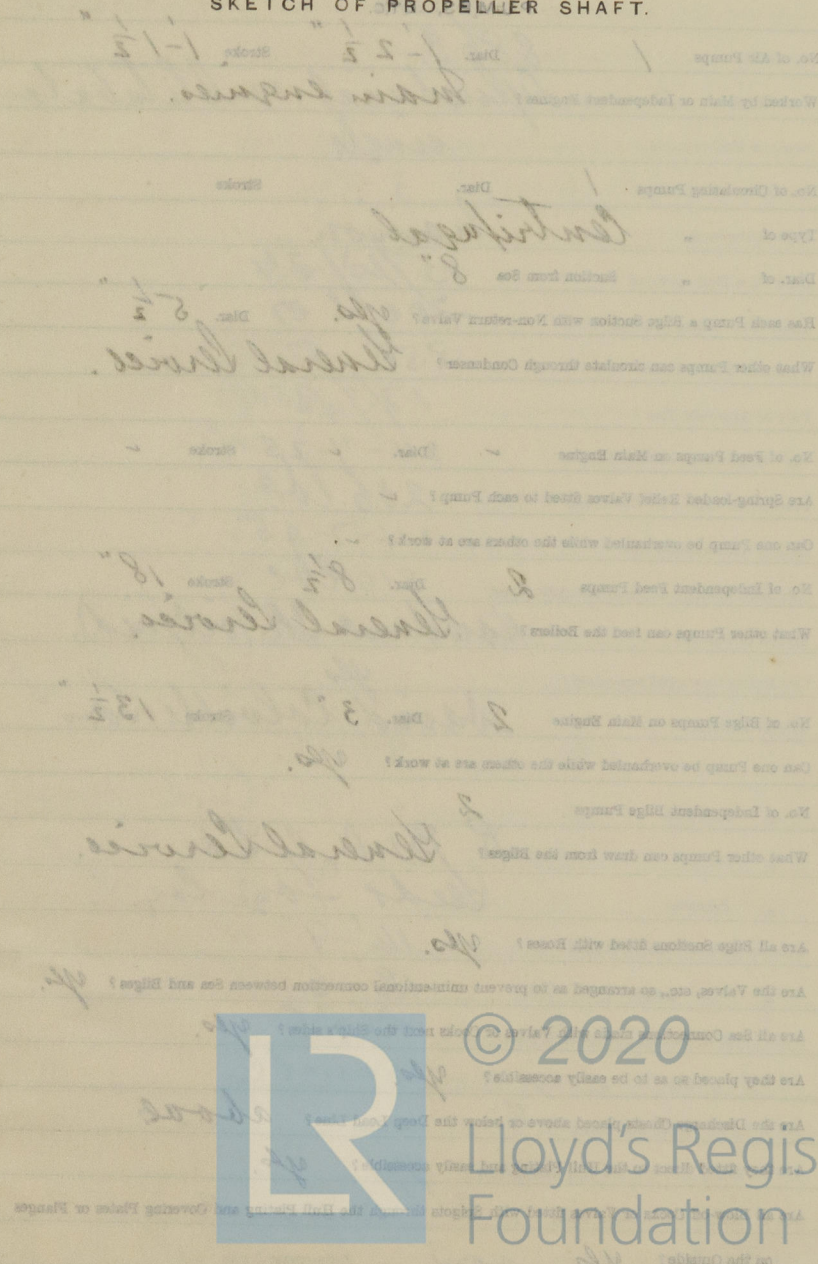
Crank Shaft:-

*B.C.
 No 9633
 26-3-25
 R.S.*

*Thrust working
 & bare tail shafts:-*

*B.C.
 No 9633
 21-4-25
 R.S.*

SKETCH OF PROPELLER SHAFT.



PUMPS, ETC.

No. of Air Pumps

Diar.

1-2 1/2"

Stroke

1-1 1/2"

Worked by Main or Independent Engines?

Main engines.

No. of Circulating Pumps

Diar.

Stroke

Type of

"

Centrifugal

Diar. of

"

Suction from Sea

8"

Has each Pump a Bilge Suction with Non-return Valve?

yfs.

Diar.

5 1/2"

What other Pumps can circulate through Condenser?

General Service.

No. of Feed Pumps on Main Engine

Diar.

Stroke

Are Spring-loaded Relief Valves fitted to each Pump?

yfs.

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

yfs.

No. of Independent Feed Pumps

2

Diar.

8 1/2"

Stroke

18"

What other Pumps can feed the Boilers?

General Service.

No. of Bilge Pumps on Main Engine

2

Diar.

3"

Stroke

13 1/2"

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

yfs.

No. of Independent Bilge Pumps

2

What other Pumps can draw from the Bilges?

General Service.

Are all Bilge Suctions fitted with Roses?

yfs.

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

yfs.

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

yfs.

Are they placed so as to be easily accessible?

yfs.

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

above.

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

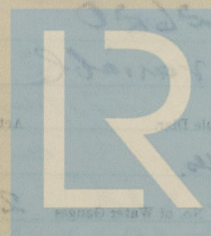
yfs.

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

on the Outside?

yfs.

BOILERS



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BOILERS.

Works No. 8863.

No. of Boilers 1 Type Cylindrical multitubular single.

Single or Double-ended

No. of Furnaces in each 3

Type of Furnaces Horizontal

Date when Plan approved 15/12/24

Approved Working Pressure 200 lb. sq. in.

Hydraulic Test Pressure 350 "

Date of Hydraulic Test 17/3/25

" when Safety Valves set 24-7-25

Pressure at which Valves were set 206 lb.

Date of Accumulation Test 24-7-25

Maximum Pressure under Accumulation Test 210 lb.

System of Draught Howden's C.A. (oil fired).

Can Boilers be worked separately? yes.

Makers of Plates David Colville Sons.

" Stay Bars R. B. & N. Co. Ltd.

" Rivets Leeds Forge Co.

" Furnaces

Greatest Internal Diam. of Boilers 14'-9"

" " Length 12'-6"

Square Feet of Heating Surface each Boiler 2620

" " Grate " variable

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

Are the Safety Valves fitted with Easing Gear? yes.

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

" Test Cocks none " Salinometer Cocks 1

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

Are the Water Gauge Pillars fitted direct to the Boiler Shells or connected by Pipes? *"*

Are these Pipes connected to Boilers by Cocks or Valves? *values.*

Are Blow-off Cocks or Valves fitted on Boiler Shells? *One*

No. of Strakes of Shell Plating in each Boiler *2*

Plates in each Strake *1 1/2*

Thickness of Shell Plates Approved *"*

in Boilers *Steel*

Are the Rivets Iron or Steel? *Butts*

Are the Longitudinal Seams Butt or Lap Joints? *Double*

Are the Butt Straps Single or Double? *Yes*

Are the Double Butt Straps of equal width? *1 1/4"*

Thickness of outside Butt Straps *1 9/16"*

inside *Machine*

Are Longitudinal Seams Hand or Machine Riveted? *Treble*

Are they Single, Double, or Treble Riveted? *5"*

No. of Rivets in a Pitch *9 9/8"*

Diam. of Rivet Holes *1 3/8"* Pitch *No Centre seams*

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

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 7/16"* Pitch *4"*

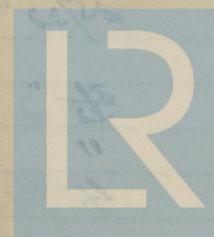
No. of Rows of Rivets in Back End Circumferential Seams *2*

Are these Seams Hand or Machine Riveted? *Machine*

Diam. of Rivet Holes *1 7/16"* Pitch *4 1/2"*

Size of Manholes in Shell *16" x 12"*

Dimensions of Compensating Rings *2-10" x 2-7" x 1 1/2"*



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Thickness of End Plates in Steam Space Approved

" " " " " in Boilers

Pitch of Steam Space Stays

Diar. " " " " Approved

Threads per Inch

" " " " " in Boilers

Material of " " "

How are Stays Secured?

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

Diar. of Stays Approved

Threads per Inch

" " " in Boilers

Material "

Are Stays fitted with Nuts outside?

Thickness of Back End Plates at Bottom Approved

" " " " " in Boilers

Pitch of Stays at Wide Spaces between Fireboxes

Thickness of Doublings in " "

Thickness of Front End Plates at Bottom Approved

" " " " " in Boilers

No. of Longitudinal Stays in Spaces between Furnaces

Threads per Inch

Diar. of stays approved

" " " " " in Boilers

Thickness of Front End Plates Approved

" " " " " in Boilers

Pitch of stay tubes at spaces between stacks of tubes

Thickness of Doublings in

Stay tubes at

Are stay tubes fitted with nuts at front end?

Thickness of Back End Plates Approved

" " " " " in Boilers

Pitch of stay tubes in back end plates

" " " " "

Thickness of stay tubes

" " " " "

External diam. of tubes

Material

Thickness of furnace plates approved

" " " " " in Boilers

Thickness outside face of furnace

Length between end plates

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Diag. of Stays Approved Threads per Inch

" " in Boilers

Material " " " "

Thickness of Front Tube Plates Approved

" " " " in Boilers

Pitch of Stay Tubes at Spaces between Stacks of Tubes

Thickness of Doublings in " " "

" Stay Tubes at " " "

Are Stay Tubes fitted with Nuts at Front End?

Thickness of Back Tube Plates Approved

" " " in Boilers

Pitch of Stay Tubes in Back Tube Plates

" Plain "

Thickness of Stay Tubes

" Plain "

External Diag. of Tubes

Material " " " "

Thickness of Furnace Plates Approved

" " " in Boilers

Smallest outside Diag. of Furnaces

Length between Tube Plates

Width of Combustion Chambers (Front to Back)

Thickness of " " Tops Approved

" " " in Boilers

Pitch of Screwed Stays in C.O. Tops

2 1/4" - 16
Steel 21 x 20"

31/32"

13 1/2" x 7 1/2"

None fitted

3/8"

Yes

2 1/2"

7 1/2 x 7 1/2"

3 3/4 x 3 3/4"

7/16 - 2 1/8 - 5/16"

No. 9 L.S. T.

2 1/2"

Iron

5/8"

3 - 7 3/4"

7 - 4 7/16"

3 - 2" over box

21/32"

8 3/4 x 8 3/4"

Threads per Inch

" " " " " "

" " " " " "

Thickness of Combustion Chamber Plates Approved

" " " " " "

Pitch of Screwed Stays in C.O. Tops

" " " " " "

" " " " " "

" " " " " "

Thickness of Combustion Chamber Plates Approved

" " " " " "

Pitch of Screwed Stays in C.O. Tops

" " " " " "

" " " " " "

" " " " " "

Are all screw stays fitted with Nuts inside C.O.?

Thickness of Combustion Chamber Plates

No. of Stays over each Wing Chamber

" " " " " "

" " " " " "

" " " " " "

" " " " " "

" " " " " "

" " " " " "

" " " " " "



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Diar. of Screwed Stays Approved

Threads per Inch

" " " in Boilers

1578" 9
Steel

Material " "

Thickness of Combustion Chamber Sides Approved

" " " " in Boilers

 $\frac{3}{8}$ C. 1 $\frac{1}{2}$ side
 $8\frac{3}{4}$ " x $8\frac{1}{2}$ "

Pitch of Screwed Stays in C.O. Sides

Diar. " " Approved

Threads per Inch

" " " in Boilers

1578" 9
Steel

Material " "

Thickness of Combustion Chamber Backs Approved

" " " " in Boilers

 $\frac{3}{8}$ "
9" x $8\frac{1}{4}$ "

Pitch of Screwed Stays in C.O. Backs

Diar. " " Approved

Threads per Inch

" " " in Boilers

1578" 9
Steel

Material " "

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

Thickness of Combustion Chamber Bottoms

Yes.
15716"

No. of Girders over each Wing Chamber

" " " Centre "

Depth and Thickness of Girders

Material of Girders

No. of Stays in each

4
 $\frac{1}{2}$ " x $\frac{15}{16}$ "
Steel
3

No. of Tubes, each Boiler

Size of Lower Manholes

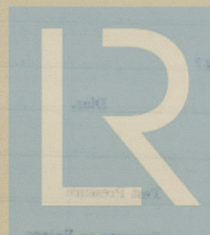
241
16 x 12"

VERTICAL DONKEY BOILERS

No. of Boilers
Type
Greatest Int. Dia.
Height of Boiler Crown above Fire Grate
A. Boiler Crown Flat or Dished?
Internal Radius of Dished Boilers
Description of seams in boiler crown
Diar. of Rivet Lines
Height of Rivet Crown above Fire Grate
Are Rivets Crown Flat or Dished?
Internal Radius of Dished Crowns
No. of Crown Stays
Diar.
Material of Rivet Tubes
Material of Rivet Tubes
Size of Manhole in Shell
Description of Connecting Pipe
Riveting pattern, each Boiler
Girth Bolts

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
Diar.
Date when Safety Valves set



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VERTICAL DONKEY BOILERS.

No. of Boilers *197* Type *9*

Greatest Int. Diar. *54"* Height *11'*

Height of Boiler Crown above Fire Grate *10'*

Are Boiler Crowns Flat or Dished? *Flat*

Internal Radius of Dished Ends *36"* Thickness of Plates *3/4"*

Description of Seams in Boiler Crowns *3/4" x 25"*

Diar. of Rivet Holes *1/2"* Pitch *2"* Width of Overlap *1"*

Height of Firebox Crowns above Fire Grate *10'*

Are Firebox Crowns Flat or Dished? *Flat*

External Radius of Dished Crowns *36"* Thickness of Plates *3/4"*

No. of Crown Stays *10* Diar. *10"* Material *Steel*

External Diar. of Firebox at Top *54"* Bottom *54"* Thickness of Plates *3/4"*

No. of Water Tubes *10* Ext. Diar. *2"* Thickness *1/4"*

Material of Water Tubes *Steel*

Size of Manhole in Shell *13" x 18"*

Dimensions of Compensating Ring *54"*

Heating Surface, each Boiler *1000* Grate Surface *1000*

SUPERHEATERS.

Description of Superheaters *4*

Where situated? *Top of boiler*

Which Boilers are connected to Superheaters? *197*

Can Superheaters be shut off while Boilers are working? *Yes*

No. of Safety Valves on each Superheater *2* Diar. *2"*

Are *1* fitted with Basing Gear? *Yes*

Date of Hydraulic Test *1911* Test Pressure *110*

Date when Safety Valves set *1911* Pressure on Valves *110*

MAIN STEAM PIPES

No. of Pipes *2*

Material *Steel*

Branch, Welded or Seamless *Welded*

Internal Diar. *12"*

Thickness *1/2"*

How are Flanges secured? *Welded*

Date of Hydraulic Test *1-1-11*

Test Pressure *110*

No. of Pipes *2*

Material *Steel*

Branch, Welded or Seamless *Welded*

Internal Diar. *12"*

Thickness *1/2"*

How are Flanges secured? *Welded*

Date of Hydraulic Test *1-1-11*

Test Pressure *110*



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MAIN STEAM PIPES.

No. of Lengths	2	1
Material	copper.	copper.
Brazed, Welded or Seamless	S.D.	S.D.
Internal Diam.	4"	4"
Thickness	5 w.g.	5 w.g.
How are Flanges secured?	brained.	brained.
Date of Hydraulic Test	1-7-25	15-7-25
Test Pressure	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	

*General Services Division
Duplex Boilers 6' x 4' x 6'*

1 Pair Water Feed Pumps 15" x 10"

FEED WATER HEATERS

*1 Super Heater
1 Air Preheater
200 lbs. Test Pressure*

FEED WATER FILTERS



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EVAPORATORS.

No.	Type	Makers	Working Pressure	Test Pressure	Tons per Day	Date of Test
✓						

Date of Test of Safety Valves under Steam

FEED WATER HEATERS.

No.	Type	Makers	Working Pressure	Test Pressure	Date of Test
1	Surface Heater.	Camp & Rayner.	200 lbs.	300 lbs	3/6/25

FEED WATER FILTERS.

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

LIST OF DONKEY PUMPS.

Lancaster General Service Vertical
 Duplex Donkey 6" x 4 1/4" x 6"
 1 Pair Weirs Feed pumps 6" x 8 1/2" x 18"



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SPARE GEAR

No. of Top End Bolts. 2	No. of Bot. End Bolts. 2	No. of Cylinder Cover Studs
" Coupling Bolts 6	" Main Bearing Bolts 2	" Valve Chest "
" Junk Ring Bolts	" Feed Pump Valves 1 set	" Bilge Pump Valves 1 set
" H.P. Piston Rings 6	" L.P. Piston Rings	" L.P. Piston Rings
" " Springs	" " Springs	" " Springs
" Safety Valve " 1	" Fire Bars 1 set	" Feed Check Valves 2
" Piston Rods	" Connecting Rods	" Valve Spindles 1
" Air Pump Rods	" Air Pump Buckets	" Air Pump Valves 1 set
" Cir. " "	" Cir. " "	" Cir. " "
" Crank Shafts	" Crank Pin Bushes	" Crosshead Bushes
" Propeller Shafts 1	" Propellers 1	" Propeller Blades
" Boiler Tubes 8	" Condenser Tubes 12	" Condenser Ferrules 30

OTHER ARTICLES OF SPARE GEAR:—

REFRIGERATORS



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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.
Machine of Engines				
Capacity	45			
Current alternating or Continuous				
Single or Double Effect System				
Position of Engines				
Heat Exchanger				
No. of Cylinders or other Engines and provided on Main Switch Board				
Particulars of these Cylinders				
Boiler				
Condenser				
Compressor				
Evaporator				
Refrigerant				
Other				

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



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OF THE BOARD OF DIRECTORS

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ELECTRIC LIGHTING.

Installation Fitted by *R. Pickering & Sons Ltd.*
 No. and Description of Dynamos *Compound wound*
 Makers of Dynamos *J. H. Holmes, Newcastle.*
 Capacity " *45* Amperes, at *100* Volts, *400* Revols. per Min.
 Current Alternating or Continuous *Continuous.*
 Single or Double Wire System *Double.*
 Position of Dynamos *Main Side Starling Platform*
 " Main Switch Board *Engine Room, Store bulkhead.*
 No. of Circuits to which Switches are provided on Main Switch Board *5*

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.
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Same as 1's Southern Cross

Total No. of Lights

No. of Motors driving Fans, &c.

No. of Heaters

Current required for Motors and Heaters

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

Are Out-outs fitted as follows?—

On Main Switch Board, to Cables of Main Circuits

On Aux. " " each Auxiliary Circuit

Wherever a Cable is reduced in size

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. S.W.G., Largest, No. 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?

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?

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

Has the Insulation Resistance over the whole system been tested?

What does the Resistance amount to?

Ohms,

Is the Installation supplied with a Voltmeter?

" " " an Ampere Meter?

Date of Trial of complete Installation 30-7-25 Duration of Trial 6 hours.

Have all the requirements of Section 42 been satisfactorily carried out? yes.



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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.

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. "SOUTHERN WAVE"

as ascertained by ^{us} _{me} from personal examination

J. D. Stephenson
(Boiler)

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

Fees—

MAIN BOILERS.

	£	s.	d.
H.S. 2620 Sq. ft.	21	16	6
G.S. 63 with coal.			

DONKEY BOILERS.

	£	s.	d.
H.S. ✓ Sq. ft.			
G.S. ✓ "			

ENGINES.

	£	s.	d.
L.P.O. 21.8 Cub. ft.	23	12	6
Testing, &c. 6 L. Inst.	5	0	0
Expenses			
Total	£ 50	9	0

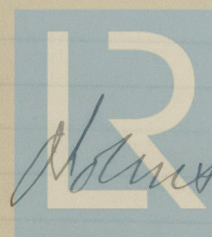
It is submitted that this Report be approved,

W. H. King
Chief Surveyor.

Approved by the Committee for the Class of M.B.S.* on the 4th November 1925

Fees advised

Fees paid



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Secretary.

GENERAL INFORMATION

Name

MAY HOLLER

H.S.

2520 21 16 19 000

D.S.

2520 21 16 19 000

DOWNEY HOLLER

H.S.

2520 21 16 19 000

D.S.

2520 21 16 19 000

FEDERAL

L.P.O.

2520 21 16 19 000

Testing fee

Expenses

It is submitted that this Report be approved.

Approved by the Committee for the Class of M.B.S. on the 12th of September 1912

SOUTHERN WAVE

I am advised

this

The undersigned hereby certifies that the above is a true and correct copy of the original as the same appears in the files of the Southern Wave.



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