

No. 2241

THE BRITISH CORPORATION FOR THE SURVEY
AND
REGISTRY OF SHIPPING.

Report No. 2232 No. in Register Book 3615

" N/M. PICTON. "

S.S. MEADCLIFFE HALL

Makers of Engines Swanwick Dock Co. Ltd.

Works No. 336.

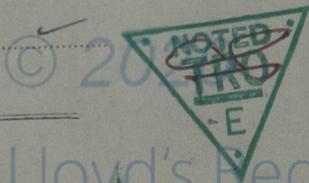
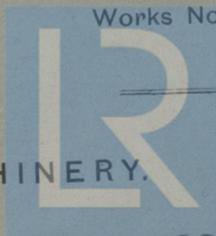
Makers of Main Boilers Blair & Co. (1926) Ltd.

Works No. C. 144.

Makers of Donkey Boiler ✓

Works No. ✓

MACHINERY.



Lloyd's Register
Foundation

003525-003532-0109

BRITISH

No.

THE BRITISH CORPORATION FOR THE SURVEY
AND
REGISTRY OF SHIPPING.

Report No. No. in Register Book

Received at Head Office *8th November 1929*

Surveyor's Report on the Two Engines, Boilers and Auxiliary Machinery of the ~~Single Triple~~ Twin Screw Steamers.

"Meadcliffe Hall"

Official No. *160716* Port of Registry *Middlesbrough.*

Registered Owners *Hall Corporation of Canada.*

Engines Built by *Smyth's Dock & Co. Ltd.*

at *South Bank-on-Sea.*

Main Boilers Built by *Blair & Co. (1926) Ltd.*

at *Stockton-on-Tees.*

Donkey " "

at

Date of Completion *3-29.*

First Visit *19-11-28* Last Visit *3-29* Total Visits *40*



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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 Revols. 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.

Propeller shaft

8 1/2" dia

12 1/2" dia

18 1/2" dia

24 1/2" dia

30 1/2" dia

36 1/2" dia

42 1/2" dia

48 1/2" dia

54 1/2" dia

60 1/2" dia

66 1/2" dia

72 1/2" dia

78 1/2" dia

84 1/2" dia

90 1/2" dia

96 1/2" dia

102 1/2" dia

108 1/2" dia

114 1/2" dia

120 1/2" dia

126 1/2" dia

132 1/2" dia

138 1/2" dia

144 1/2" dia

150 1/2" dia

156 1/2" dia

162 1/2" dia

168 1/2" dia

174 1/2" dia

180 1/2" dia

186 1/2" dia

192 1/2" dia

198 1/2" dia

204 1/2" dia

210 1/2" dia

216 1/2" dia

222 1/2" dia

228 1/2" dia

234 1/2" dia

240 1/2" dia

246 1/2" dia

252 1/2" dia

258 1/2" dia

264 1/2" dia

270 1/2" dia

276 1/2" dia

282 1/2" dia

288 1/2" dia

294 1/2" dia

300 1/2" dia

306 1/2" dia

312 1/2" dia

318 1/2" dia

324 1/2" dia

330 1/2" dia

336 1/2" dia

342 1/2" dia

348 1/2" dia

354 1/2" dia

360 1/2" dia

366 1/2" dia

372 1/2" dia

378 1/2" dia

384 1/2" dia

390 1/2" dia

396 1/2" dia

402 1/2" dia

408 1/2" dia

414 1/2" dia

420 1/2" dia

426 1/2" dia

432 1/2" dia

438 1/2" dia

444 1/2" dia

450 1/2" dia

456 1/2" dia

462 1/2" dia

468 1/2" dia

474 1/2" dia

480 1/2" dia

486 1/2" dia

492 1/2" dia

498 1/2" dia

504 1/2" dia

510 1/2" dia

516 1/2" dia

522 1/2" dia

528 1/2" dia

534 1/2" dia

540 1/2" dia

546 1/2" dia

552 1/2" dia

558 1/2" dia

564 1/2" dia

570 1/2" dia

576 1/2" dia

582 1/2" dia

588 1/2" dia

594 1/2" dia

600 1/2" dia

606 1/2" dia

612 1/2" dia

618 1/2" dia

624 1/2" dia

630 1/2" dia

636 1/2" dia

642 1/2" dia

648 1/2" dia

654 1/2" dia

660 1/2" dia

666 1/2" dia

672 1/2" dia

678 1/2" dia

684 1/2" dia

690 1/2" dia

696 1/2" dia

702 1/2" dia

708 1/2" dia

714 1/2" dia

720 1/2" dia

726 1/2" dia

732 1/2" dia

738 1/2" dia

744 1/2" dia

750 1/2" dia

756 1/2" dia

762 1/2" dia

768 1/2" dia

774 1/2" dia

780 1/2" dia

786 1/2" dia

792 1/2" dia

798 1/2" dia

804 1/2" dia

810 1/2" dia

816 1/2" dia

822 1/2" dia

828 1/2" dia

834 1/2" dia

840 1/2" dia

846 1/2" dia

852 1/2" dia

858 1/2" dia

864 1/2" dia

870 1/2" dia

876 1/2" dia

882 1/2" dia

888 1/2" dia

894 1/2" dia

900 1/2" dia

906 1/2" dia

912 1/2" dia

918 1/2" dia

924 1/2" dia

930 1/2" dia

936 1/2" dia

942 1/2" dia

948 1/2" dia

954 1/2" dia

960 1/2" dia

966 1/2" dia

972 1/2" dia

978 1/2" dia

984 1/2" dia

990 1/2" dia

996 1/2" dia

1002 1/2" dia

1008 1/2" dia

1014 1/2" dia

1020 1/2" dia

1026 1/2" dia

1032 1/2" dia

1038 1/2" dia

1044 1/2" dia

1050 1/2" dia

1056 1/2" dia

1062 1/2" dia

1068 1/2" dia

1074 1/2" dia

1080 1/2" dia

1086 1/2" dia

1092 1/2" dia

1098 1/2" dia

1104 1/2" dia

1110 1/2" dia

1116 1/2" dia

1122 1/2" dia

1128 1/2" dia

1134 1/2" dia

1140 1/2" dia

1146 1/2" dia

1152 1/2" dia

1158 1/2" dia

1164 1/2" dia

1170 1/2" dia

1176 1/2" dia

1182 1/2" dia

1188 1/2" dia

1194 1/2" dia

1200 1/2" dia

1206 1/2" dia

1212 1/2" dia

1218 1/2" dia

1224 1/2" dia

1230 1/2" dia

1236 1/2" dia

1242 1/2" dia

1248 1/2" dia

1254 1/2" dia

1260 1/2" dia

1266 1/2" dia

1272 1/2" dia

1278 1/2" dia

1284 1/2" dia

1290 1/2" dia

1296 1/2" dia

1302 1/2" dia

1308 1/2" dia

1314 1/2" dia

1320 1/2" dia

1326 1/2" dia

1332 1/2" dia

1338 1/2" dia

1344 1/2" dia

1350 1/2" dia

1356 1/2" dia

1362 1/2" dia

1368 1/2" dia

1374 1/2" dia

1380 1/2" dia

1386 1/2" dia

1392 1/2" dia

1398 1/2" dia

1404 1/2" dia

1410 1/2" dia

1416 1/2" dia

1422 1/2" dia

1428 1/2" dia

1434 1/2" dia

1440 1/2" dia

1446 1/2" dia

1452 1/2" dia

1458 1/2" dia

1464 1/2" dia

1470 1/2" dia

1476 1/2" dia

1482 1/2" dia

1488 1/2" dia

1494 1/2" dia

1500 1/2" dia

1506 1/2" dia

1512 1/2" dia

1518 1/2" dia

1524 1/2" dia

1530 1/2" dia

1536 1/2" dia

1542 1/2" dia

1548 1/2" dia

1554 1/2" dia

1560 1/2" dia

1566 1/2" dia

1572 1/2" dia

1578 1/2" dia

1584 1/2" dia

1590 1/2" dia

1596 1/2" dia

1602 1/2" dia

1608 1/2" dia

1614 1/2" dia

1620 1/2" dia

1626 1/2" dia

1632 1/2" dia

1638 1/2" dia

1644 1/2" dia

1650 1/2" dia

1656 1/2" dia

1662 1/2" dia

1668 1/2" dia

1674 1/2" dia

1680 1/2" dia

1686 1/2" dia

1692 1/2" dia

1698 1/2" dia

1704 1/2" dia

1710 1/2" dia

1716 1/2" dia

1722 1/2" dia

1728 1/2" dia

1734 1/2" dia

1740 1/2" dia

1746 1/2" dia

1752 1/2" dia

1758 1/2" dia

1764 1/2" dia

1770 1/2" dia

1776 1/2" dia

1782 1/2" dia

1788 1/2" dia

1794 1/2" dia

SHAFTING.

Are the Crank Shafts Built or Solid?

Built.

No. of Lengths in each

Angle of Cranks

120°

Diar. by Rule

Actual

8 3/8"

In Way of Webs

8 3/8"

" of Crank Pins

8 3/4"

Length between Webs

8 1/2"

Greatest Width of Crank Webs

15 5/8"

Thickness

5 3/16"

Least " "

12 1/2"

Diar. of Keys in Crank Webs

1 1/2"

Length

4"

" Dowels in Crank Pins

1"

Length

3 1/2"

Screwed or Plain

Plain.

No. of Bolts each Coupling

6

Diar. at Mid Length

2"

Diar. of Pitch Circle

12 1/2"

Greatest Distance from Edge of Main Bearing to Crank Web

1/8"

Type of Thrust Blocks

Horseshoe type.

No. " Rings

5

Diar. of Thrust Shafts at bottom of Collars

8 3/8"

No. of Collars

5

" " Forward Coupling

7 1/8"

At Aft Coupling

7 1/8"

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

9"

At Couplings

8 3/8"

Are Propeller Shafts fitted with Continuous Brass Liners?

Yes.

Diar. over Liners

10 3/16"

Length of After Bearings

3 1/4"

Of what Material are the After Bearings composed?

Signum 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?

Open to Sea.

SKETCH OF CRANK SHAFT.

Handwritten sketches and notes on the right page, including a diagram of a crankshaft and various measurements and labels.

Stamp: STAMP MARKS ON SHAFTS. No. 1114. 14-15-08. R. 2.



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No. of Blades each Propeller

44

Fitted or Solid?

Fitted

Material of Blades

P.S.

Boss

Diam. of Propellers

12'0"

Pitch

10'0"

Surface (each

53

S. ft.)

Coefficient of Displacement of Vessel at $\frac{1}{2}$ Moulded Depth

Crank Shafts Forged by

Yip's Foundry

Material

I.P.

„ Pins „

„ Webs „

Thrust Shafts „

Intermed. „

Propeller „

Crank „ Finished by

Thrust „

Intermed. „

Propeller „

STAMP MARKS ON SHAFTS.

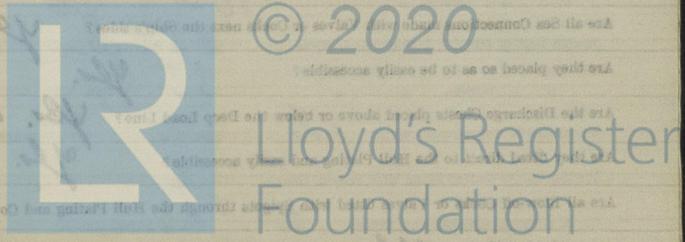
Crank, Thrust &
Tail Shafts:—

B.C.
No 214
14-12-28.
R.S.

SKETCH OF PROPELLER SHAFT.

Vertical shaft
10'0" dia
10'0" pitch
53 surface
I.P.
Yip's Foundry

What other pumps can draw from the bilges?
Are all bilge scooters fitted with hoses?
Are the valves etc. so arranged as to prevent unintentional connection between the main bilges?
Are all sea connections made with valves & cocks near the stern?
Are they placed so as to be easily accessible?
Are the bilge pumps placed above or below the deck level?
Are the bilge pumps so arranged that they can be worked from the deck?
Can one pump be overhauled while the others are at work?
No. of independent bilge pumps
No. of independent lead pumps
Can one pump be overhauled while the others are at work?
No. of bilge pumps on main engine
Diam. of bilge pumps on main engine
Are spring-loaded ball valves fitted to each pump?
No. of lead pumps on main engine
What other pumps can develop through condenser?
Is each pump a lift pump with non-return valve?
Diam. of section from sea
Type of
No. of circulating pumps



PUMPS, ETC.

No. of Air Pumps

1

Diar.

4"

Stroke

16 1/2"

Worked by Main or Independent Engines?

Main engines.

No. of Circulating Pumps

Vertical duplex

Diar.

10"

Stroke

10"

Type of

"

Diar. of

"

Suction from Sea

7"

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

yes.

Diar.

4 3/4"

What other Pumps can circulate through Condenser?

Ballast pump

No. of Feed Pumps on Main Engine

2

Diar.

2 3/4"

Stroke

16 1/2"

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 Services.

No. of Bilge Pumps on Main Engine

2

Diar.

2 3/4"

Stroke

16 1/2"

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 & General Services.

Are all Bilge Suctions fitted with Roses?

Mud boots & 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?

yes.

Are they placed so as to be easily accessible?

yes.

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

yes. 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.

Type

Single or Double-ended

No. of Boilers in each

Type of Boilers

Date when first approved

Approved Working Pressure

Hydraulic Test Pressure

Date of Hydraulic Test

When Safety Valves set

Pressure at which Valves were set

Date of Re-amination Test

Maximum Pressure under Re-amination Test

System of Drafting

Can Boilers be worked separately?

Number of Tubes

Step Bars

Rivets

Buttresses

Greatest Internal Dia. of Boilers

Length

Pressure Port or Hole

Diameter

Are the Safety Valves fitted with lifting gear?

No. of Water Gauges

Type of Cocks



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

on pillars. direct.

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?

valves.

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

No. of Strakes of Shell Plating in each Boiler

Plates in each Strake

Thickness of Shell Plates Approved

2 3/16"
2 3/16"

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?

4 1/2"
5 7/8"

Thickness of outside Butt Straps

3/4"

inside

Are Longitudinal Seams Hand or Machine Riveted?

machine.
treble.

Are they Single, Double, or Treble Riveted?

No. of Rivets in a Pitch

5
6 1/8"

Diam. of Rivet Holes

3/8"

Pitch

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"

Pitch

3.48"

No. of Rows of Rivets in Back End Circumferential Seams

2

Are these Seams Hand or Machine Riveted?

machine.

Diam. of Rivet Holes

1"

Pitch

3.48"

Size of Manholes in Shell

16" x 12"

Dimensions of Compensating Rings

2'-10" x 2'-6" x 1 3/16"



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Thickness of End Plates in Steam Space Approved

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

" " " " " in Boilers

Pitch of Steam Space Stays

$16\frac{1}{4}$ " x $13\frac{1}{2}$ "

Diar. " " " " Approved

$2\frac{7}{8}$ " Threads per Inch 6

" " " " " in Boilers

Material of " " "

stat.
double nuts washers.

How are Stays Secured?

$10\frac{1}{4}$ " x $1\frac{1}{16}$ "

Diar. and Thickness of Loose Washers on End Plates

" " Riveted " "

Width " " Doubling Strips "

Thickness of Middle Back End Plates Approved

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

" " " " " in Boilers

Thickness of Doublings in Wide Spaces between Fireboxes

Pitch of Stays at

14 " x $8\frac{1}{8}$ "

Diar. of Stays Approved

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

" " " " " in Boilers

Material "

stat.
yes.

Are Stays fitted with Nuts outside?

Thickness of Back End Plates at Bottom Approved

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

" " " " " in Boilers

Pitch of Stays at Wide Spaces between Fireboxes

14 " x $8\frac{1}{8}$ "

Thickness of Doublings in " "

Thickness of Front End Plates at Bottom Approved

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

" " " " " in Boilers

No. of Longitudinal Stays in Spaces between Furnaces



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Diar. of Stays Approved

2 1/2" Threads per Inch 6

" " in Boilers

2 1/4" steel.

Material "

Thickness of Front Tube Plates Approved

1 1/32"

" " " " in Boilers

1 1/32" 13 1/2" x 7 1/2"

Pitch of Stay Tubes at Spaces between Stacks of Tubes

Thickness of Doublings in

5/16"

" Stay Tubes at

Are Stay Tubes fitted with Nuts at Front End?

Top margin only.

Thickness of Back Tube Plates Approved

13/16"

" " " in Boilers

Pitch of Stay Tubes in Back Tube Plates

7 1/2" x 8 1/4"

" Plain "

3 3/4" x 3 5/4"

Thickness of Stay Tubes

3/8" & 5/16"

" Plain "

9 weld.

External Diar. of Tubes

2 1/2"

Material "

Iron.

Thickness of Furnace Plates Approved

15/32"

" " " in Boilers

15/32"

Smallest outside Diar. of Furnaces

2 - 11 7/16"

Length between Tube Plates

7' - 6 3/8"

Width of Combustion Chambers (Front to Back)

2' 7 1/2"

Thickness of " " Tops Approved

1/16"

" " " in Boilers

1/16"

Pitch of Screwed Stays in C.O. Tops

9 1/2" x 9"



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Diar. of Screwed Stays Approved

Threads per Inch

9
9

" " " in Boilers

Material " "

1 5/8"
1 5/8"
steel.

Thickness of Combustion Chamber Sides Approved

1/16"
1/16"

" " " in Boilers

Pitch of Screwed Stays in C.O. Sides

9 3/4" x 8 1/2"

Diar. " " Approved

Threads per Inch

9
9

" " " in Boilers

Material " "

1 5/8"
1 5/8"
steel.

Thickness of Combustion Chamber Backs Approved

5/8"
5/8"

" " " in Boilers

Pitch of Screwed Stays in C.O. Backs

8 1/4" x 8 1/8"

Diar. " " Approved

Threads per Inch

9
9

" " " in Boilers

Material " "

1 7/8", 1 3/4", 1 3/8", 1 1/2", 1 5/8"

steel.

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

y/ls
1/16"

Thickness of Combustion Chamber Bottoms

No. of Girders over each Wing Chamber

4

" " " Centre "

Depth and Thickness of Girders

8 3/8" x 1 1/4"

Material of Girders

steel.

No. of Stays in each

2

No. of Tubes, each Boiler

182

Size of Lower Manholes

16 x 12"

VERTICAL DONKEY BOILERS

No. of Boilers	Type	Description of Boilers	Height
		Height of Boiler Crown above Fire Grate	
		Are Boiler Crowns Flat or Dished?	
		Internal Radius of Dished Boilers	
		Thickness of Plates	
		Description of Stays in Boiler Crowns	
		Diar. of Rivet Heads	
		Height of Rivet Heads	
		Height of Pinbol Crowns above Fire Grate	
		Are Pinbol Crowns Flat or Dished?	
		External Radius of Dished Crowns	
		Thickness of Plates	
		Diar.	
		No. of Crown Stays	
		External Diar. of Pinbol at Top	
		Thickness	
		No. of Water Tubes	
		Diameter of Water Tubes	
		Size of Manhole in Shell	
		Dimensions of Combustion Ring	
		Heating Surface, each Boiler	

SUPERHEATERS



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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

Diarr. 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 Diarr. Material

External Diarr. of Firebox at Top Bottom Thickness of Plates

No. of Water Tubes Ext. Diarr. 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 Diarr.

Are " " fitted with Easing Gear ?

Date of Hydraulic Test Test Pressure

Date when Safety Valves set Pressure on Valves

MAIN STEAM PIPES



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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

4
Copper.
S. D.
3 1/2"
y.w.f.
braced.
20-2-29.
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

6" x 4" x 4" "Vertical ducts" brass
Service Boiler
3 1/2" x 3 1/2" x 4" "Ducts" brass
5 1/2" x 3 1/2" x 4" "Ducts" brass
7 1/2" x 4 1/2" x 4" "FEED WATER HEATERS" brass
100 lbs. Test Pressure

100 lbs. Test Pressure
100 lbs. Test Pressure
100 lbs. Test Pressure



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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	
1		
Makers		
Working Pressure	Test Pressure	Date of Test

FEED WATER FILTERS.

No.	Type	Size
1		
Makers		
Working Pressure	Test Pressure	Date of Test

LIST OF DONKEY PUMPS.

6" x 4" x 6"	Vertical duplex General Service Donkey.
3 1/2" x 3 1/2" x 4"	Duplex Paulsen Donkey.
3 1/2" x 3 1/2" x 4"	Duplex Fresh Water Pump.
9 1/2" x 11 1/2" x 4"	Vertical duplex Ballast Pump.



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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.
110 bath	50	72	4	
8 bath	74	74 1/2	1/2	
82 bath	70	70	7/8	
24 bath	74	72	7/8	
39 bath	70	70	7/8	

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



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ELECTRIC LIGHTING.

Installation Fitted by

R. Pickersquill Sons Ltd.

No. and Description of Dynamos

One compound wound
Lundland Large Eng Co Ltd.

Makers of Dynamos

Lundland Large Eng Co Ltd.

Capacity

110 volts, at 350 R.P.M. $\frac{1}{2}$ H.P.

Current Alternating or Continuous

Continuous.

Single or Double Wire System

Double.

Position of Dynamos

Starting platform.

" Main Switch Board

"

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.	Current Density.	Conductivity of Conductor.	Insulation Resistance per Mile.
Navigation	8	370	3.7	$\frac{1}{8}$ 0.29	9.6.6	9.6.6	600 meg.
Engineers	32	960	9	$\frac{1}{4}$ 0.44	"	"	"
Engine Room	24	720	7.2	$\frac{1}{8}$ 0.29	"	"	"
Forward Accommodation	3.9	1170	11.7	$\frac{1}{4}$ 0.44	"	"	"

Total No. of Lights

103

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 *yes.*

On Aux. " " each Auxiliary Circuit ✓

Wherever a Cable is reduced in size *yes.*

To each Lamp Circuit *yes.*

To both Flow and Return Wires of all Circuits when the Double-Wire System is adopted *yes.*

Are the Fuses of Standard Sizes? *yes.*

Are all Switches and Out-outs constructed of Non-inflammable Material? *yes.*

Are they placed so as to be always and easily accessible? *yes.*

Smallest Single Wire used, No. *1/044* S.W.G., Largest, No. *19/044* S.W.G.

How are Conductors in Engine and Boiler Spaces protected? *Lead covered & armoured.*

" " Saloons, State Rooms, &c., " " *V.I.R.*

What special protection is provided in the following cases?—

(1) Conductors exposed to Heat or Damp *Lead covered & armoured.*

(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? *none.*

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

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? *600 Megohms.*

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

" " " an Ampere Meter *yes.*

Date of Trial of complete Installation *6-3-29* 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. MEADCLIFFE HALL

as ascertained by ^{me} from personal examination

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

Fees—

MAIN BOILERS.		£	s.	d.
H.S.	<i>2256</i> Sq. ft.	:	:	:
G.S.	<i>64.6</i> "	:	:	:
DONKEY BOILERS.				
H.S.	Sq. ft.	:	:	:
G.S.	"	:	:	:
		£	:	:
ENGINES.				
L.P.C.	<i>24</i> Cub. ft.	:	:	:
		£	:	:
Testing, &c. ...		:	:	:
		£	:	:
Expenses ...		:	:	:
Total ...		£	:	:

It is submitted that this Report be approved,

Jas Barr for Chief Surveyor.

Approved by the Committee for the Class of M.B.S.* on the *13th November 1929.*

Fees advised

Fees paid



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