

No. 2175

THE BRITISH CORPORATION FOR THE SURVEY
AND
REGISTRY OF SHIPPING.

Report No. 2031 No. in Register Book 3371.

S.S. WALTER B. REYNOLDS

Makers of Engines

Works No.

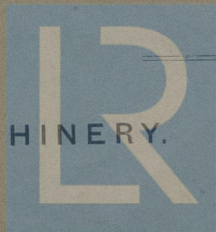
Makers of Main Boilers

Works No.

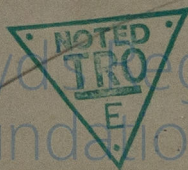
Makers of Donkey Boiler

Works No.

MACHINERY.



© 2020



Lloyd's Register
Foundation

003245-003251-0184

No.

THE BRITISH CORPORATION FOR THE SURVEY

AND

REGISTRY OF SHIPPING.

Report No. No. in Register Book

Received at Head Office

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

Walter B. Reynolds

Official No. *147799* Port of Registry *Montreal*

Registered Owners

Mont-Louis Steamship Co. Ltd.

Engines Built by

at

Main Boilers Built by

at

Donkey

at

Date of Completion

5-27.

First Visit

16-12-26

Last Visit

10-5-27

Total Visits

40

© 2020

Lloyd's Register
Foundation

RECIPROCATING ENGINES

Works No. **300** No. of Sets **1** Description **Triple expansion. P.C. 3 cranks.**

No. of Cylinders each Engine **3** No. of Cranks **3**
 Diars of Cylinders **15" - 25" - 40"** Stroke **33"**
 Cubic feet in each L.P. Cylinder **23.65**

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

" " " each Receiver?

Type of H.P. Valves,

" 1st L.P. "

" 2nd L.P. "

" L.P. "

" Valve Gear

" Condenser

Diameter of Piston Rods (plain part)

Material

Diar. of Connecting Rods (smallest part)

" Crosshead Guideons **3 7/8"** Length of Bearing **4 1/16"**

No. of Crosshead Bolts (each) **4** Diar. over Thrd. **1 3/4"**

" Crank Pin " " **2 1/4"**

" Main Bearings **6** Lengths **8 3/8"**

" Bolts in each **2** Diar. over Thread **2"**

" Holding Down Bolts, each Engine **52**

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

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

If not, how are they fitted?

No. of Cranks **3**

Stroke **33"**

Yes.

Yes.

Piston Slide.

Slide. Stephenson link. Surface.

Cooling Surface **850** sq. ft.

Screwed part (bottom of thread) **2.343"**

Stub.

Material

Material

Stub.

Stub.

Stub.

Stub.

Stub.

No. of Metal Chocks **52**

Tank top.

Yes.

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?

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

Pressure in 1st L.P. Receiver,

Speed on Trial

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.

Cumtch & Co. Ltd.

6-5-27.

12-5-27.

In North Sea.

Revs. per min. **111.5.**

767.

51

lbs., 2nd L.P.,

lbs., L.P.,

6.8 lbs., Vacuum, **24** ins.

no speed taken.

Revs. per min.



© 2020

Lloyd's Register
Foundation

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?

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 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 Turbines employed

Description of Gearing

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 } Width
 " 1st " Wheel

Estimated Pressure per lineal inch

Diam. of 2nd Reduction Pinion } Width
 " 2nd " Wheel

Estimated Pressure per lineal inch

Revs. per min. of Generators at Full Power

" " Motors

" " 1st Reduction Shaft

" " 2nd " "

" " Propeller 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.



© 2020

Lloyd's Register
Foundation

Description of Motors

Estimated Pressure per lineal inch

Diar. of 2nd Reduction Pinion

" 2nd " Wheel

Estimated Pressure per lineal inch

Revol. 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.

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.

© 2020

Lloyd's Register Foundation

Build:

Greatest Distance from Edge of Main Bearing to Crank Web

earing to Crank Web

House shoe type.

4

Diar. of Pitch Circle

$P \frac{3}{8}$ "

At Aft Coupling

$4\frac{7}{8}$ "

Are Propeller Shafts fitted with Continuous Brass Liners?

Yes.

3-4.

Of what Material are the After Bearings composed ?

Legnum Filai

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

1862
1861
1860
1859
1858
1857
1856
1855
1854
1853
1852
1851
1850
1849
1848
1847
1846
1845
1844
1843
1842
1841
1840
1839
1838
1837
1836
1835
1834
1833
1832
1831
1830
1829
1828
1827
1826
1825
1824
1823
1822
1821
1820
1819
1818
1817
1816
1815
1814
1813
1812
1811
1810
1809
1808
1807
1806
1805
1804
1803
1802
1801
1800
1799
1798
1797
1796
1795
1794
1793
1792
1791
1790
1789
1788
1787
1786
1785
1784
1783
1782
1781
1780
1779
1778
1777
1776
1775
1774
1773
1772
1771
1770
1769
1768
1767
1766
1765
1764
1763
1762
1761
1760
1759
1758
1757
1756
1755
1754
1753
1752
1751
1750
1749
1748
1747
1746
1745
1744
1743
1742
1741
1740
1739
1738
1737
1736
1735
1734
1733
1732
1731
1730
1729
1728
1727
1726
1725
1724
1723
1722
1721
1720
1719
1718
1717
1716
1715
1714
1713
1712
1711
1710
1709
1708
1707
1706
1705
1704
1703
1702
1701
1700
1699
1698
1697
1696
1695
1694
1693
1692
1691
1690
1689
1688
1687
1686
1685
1684
1683
1682
1681
1680
1679
1678
1677
1676
1675
1674
1673
1672
1671
1670
1669
1668
1667
1666
1665
1664
1663
1662
1661
1660
1659
1658
1657
1656
1655
1654
1653
1652
1651
1650
1649
1648
1647
1646
1645
1644
1643
1642
1641
1640
1639
1638
1637
1636
1635
1634
1633
1632
1631
1630
1629
1628
1627
1626
1625
1624
1623
1622
1621
1620
1619
1618
1617
1616
1615
1614
1613
1612
1611
1610
1609
1608
1607
1606
1605
1604
1603
1602
1601
1600
1599
1598
1597
1596
1595
1594
1593
1592
1591
1590
1589
1588
1587
1586
1585
1584
1583
1582
1581
1580
1579
1578
1577
1576
1575
1574
1573
1572
1571
1570
1569
1568
1567
1566
1565
1564
1563
1562
1561
1560
1559
1558
1557
1556
1555
1554
1553
1552
1551
1550
1549
1548
1547
1546
1545
1544
1543
1542
1541
1540
1539
1538
1537
1536
1535
1534
1533
1532
1531
1530
1529
1528
1527
1526
1525
1524
1523
1522
1521
1520
1519
1518
1517
1516
1515
1514
1513
1512
1511
1510
1509
1508
1507
1506
1505
1504
1503
1502
1501
1500
1499
1498
1497
1496
1495
1494
1493
1492
1491
1490
1489
1488
1487
1486
1485
1484
1483
1482
1481
1480
1479
1478
1477
1476
1475
1474
1473
1472
1471
1470
1469
1468
1467
1466
1465
1464
1463
1462
1461
1460
1459
1458
1457
1456
1455
1454
1453
1452
1451
1450
1449
1448
1447
1446
1445
1444
1443
1442
1441
1440
1439
1438
1437
1436
1435
1434
1433
1432
1431
1430
1429
1428
1427
1426
1425
1424
1423
1422
1421
1420
1419
1418
1417
1416
1415
1414
1413
1412
1411
1410
1409
1408
1407
1406
1405
1404
1403
1402
1401
1400
1399
1398
1397
1396
1395
1394
1393
1392
1391
1390
1389
1388
1387
1386
1385
1384
1383
1382
1381
1380
1379
1378
1377
1376
1375
1374
1373
1372
1371
1370
1369
1368
1367
1366
1365
1364
1363
1362
1361
1360
1359
1358
1357
1356
1355
1354
1353
1352
1351
1350
1349
1348
1347
1346
1345
1344
1343
1342
1341
1340
1339
1338
1337
1336
1335
1334
1333
1332
1331
1330
1329
1328
1327
1326
1325
1324
1323
1322
1321
1320
1319
1318
1317
1316
1315
1314
1313
1312
1311
1310
1309
1308
1307
1306
1305
1304
1303
1302
1301
1300
1299
1298
1297
1296
1295
1294
1293
1292
1291
1290
1289
1288
1287
1286
1285
1284
1283
1282
1281
1280
1279
1278
1277
1276
1275
1274
1273
1272
1271
1270
1269
1268
1267
1266
1265
1264
1263
1262
1261
1260
1259
1258
1257
1256
1255
1254
1253
1252
1251
1250
1249
1248
1247
1246
1245
1244
1243
1242
1241
1240
1239
1238
1237
1236
1235
1234
1233
1232
1231
1230
1229
1228
1227
1226
1225
1224
1223
1222
1221
1220
1219
1218
1217
1216
1215
1214
1213
1212
1211
1210
1209
1208
1207
1206
1205
1204
1203
1202
1201
1200
1199
1198
1197
1196
1195
1194
1193
1192
1191
1190
1189
1188
1187
1186
1185
1184
1183
1182
1181
11

© 2020

Lloyd's Register
Foundation

Lloyd's Register Foundation

PUMPS, ETC.

No. of Air Pumps *one* Diar. *14"* Stroke *16 1/2"*

Worked by Main or Independent Engines?

Main Engines

No. of Circulating Pumps *one* Diar. *10"* Stroke *10"*

Type of " *Duplex*

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? *L.S. pump 1 injector*

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 pump.*

Are all Bilge Suctions fitted with Roses? *yes.*

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? *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 *2* Type *Vertical*

Single or Double-ended *Single*

No. of Furnaces in each *2*

Type of Furnaces *Water-tube*

Date when first approved *10-1-01*

Approved Working Pressure *180 lbs.*

Hydraulic Test Pressure *220*

Date of Hydraulic Test *25-3-01*

" when Safety Valves set *25-3-01*

Pressure at which Valves were set *180 lbs.*

Date of Accumulation Test *25-3-01*

Maximum Pressure under Accumulation Test *180 lbs.*

System of Drafting *Horizontal*

Can Boilers be worked separately *yes.*

Material of Plates *Wrought Iron*

" of Rivets *Wrought Iron*

" of Stay Bars *Wrought Iron*

" of Braces *Wrought Iron*

" of Trusses *Wrought Iron*

Greatest Internal Diam. of Boilers *10' 1 1/2"*

Length *10' 9 1/2"*

Height of Foot of Horizontal Tubes *10' 0 1/2"*

" of Grate *3' 6"*

No. of Tubes *32*

Material of Tubes *Wrought Iron*

Test Cocks *1*



© 2020

Lloyd's Register
Foundation

BOILERS.

Works No. *R 323*

No. of Boilers *2* Type *Cylindrical multitubular*

Single or Double-ended *single.*

No. of Furnaces in each *2*

Type of Furnaces *Heighton*

Date when Plan approved *10-1-27.*

Approved Working Pressure *180 lbs.*

Hydraulic Test Pressure *320 "*

Date of Hydraulic Test *25-3-27*

" when Safety Valves set *6-5-27*

Pressure at which Valves were set *185 lbs.*

Date of Accumulation Test *6-5-27*

Maximum Pressure under Accumulation Test *189 lbs.*

System of Draught *Downen C.A.*

Can Boilers be worked separately? *Yes.*

Makers of Plates *Wm Beardmore & Co.*

" Stay Bars

" Rivets *R. B. Ince & Co. Ltd.*

" Furnaces *Wm Beardmore & Co.*

Greatest Internal Diam. of Boilers *10'-1³/₈"*

" " Length " *10'-9¹⁵/₁₆"*

Square Feet of Heating Surface each Boiler *1068 sq*

" " Grate " " *32 sq*

No. of Safety Valves each Boiler *2* Rule Diam. Actual *2 1/2 "*

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*

© 2020

Lloyd's Register
Foundation

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

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?

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

in Boilers

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

inside

Are Longitudinal Seams Hand or Machine Riveted?

Are they Single, Double, or Treble Riveted?

No. of Rivets in a Pitch

Diar. of Rivet Holes

No. of Rows of Rivets in Centre Circumferential Seams

Are these Seams Hand or Machine Riveted?

Diar. of Rivet Holes

No. of Rows of Rivets in Front End Circumferential Seams

Are these Seams Hand or Machine riveted?

Diar. of Rivet Holes

No. of Rows of Rivets in Back End Circumferential Seams

Are these Seams Hand or Machine Riveted?

Diar. of Rivet Holes

Size of Manholes in Shell

Dimensions of Compensating Rings



© 2020

Lloyd's Register
Foundation

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

Diar. of Stays Approved

" " " " " 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

" " " " "

Thickness of Stay Tubes

" " " " "

External Diam. of Tubes

Material

Thickness of Furnace Plates Approved

" " " " " in Boilers

Smallest outside Diam. of Furnaces

Length between Tube Plates

© 2020



Lloyd's Register
Foundation

Diar. 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 Diar. of Tubes

Material " " " "

Thickness of Furnace Plates Approved

" " " in Boilers

Smallest outside Diar. 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.C. Tops

Came as John. H. Price

Diar. of Screwed Stays Approved Threads per Inch

" " " in Boilers

Material " " " "

Thickness of Combustion Chamber sides Approved

" " " in Boilers

Pitch of Screwed Stays in C.C. sides

Diar. " " " Approved Threads per Inch

" " " in Boilers

Material " " " "

Thickness of Combustion Chamber Backs Approved

" " " in Boilers

Pitch of Screwed Stays in C.C. Backs

Diar. " " " Approved Threads per Inch

" " " in Boilers

Material " " " "

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

Thickness of Combustion Chamber Bottoms

No. of Girders over each Water Chamber

" " " " "

Depth and Thickness of Girders

Material of Girders

No. of Stays in each

No. of Tubes in each

Size of Lower Mainframes



© 2020

Lloyd's Register
Foundation

Diam. of Screwed Stays Approved

Threads per Inch

" " " in Boilers

Material " "

Thickness of Combustion Chamber Sides Approved

" " " " in Boilers

Pitch of Screwed Stays in C.O. Sides

Diam. " " Approved

Threads per Inch

" " " in Boilers

Material " "

Thickness of Combustion Chamber Backs Approved

" " " " in Boilers

Pitch of Screwed Stays in C.O. Backs

Diam. " " Approved

Threads per Inch

" " " in Boilers

Material " "

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

Thickness of Combustion Chamber Bottoms

No. of Girders over each Wing Chamber

" " " Centre "

Depth and Thickness of Girders

Material of Girders

No. of Stays in each

No. of Tubes, each Boiler

Size of Lower Manholes

VERTICAL DONKEY BOILERS.

No. of Boilers

Greatest Int. Diam.

Height of Boiler Crown above Fire Grate

Are Boiler Crown Flat or Dished?

Internal Radius of Dished Ends

Description of Stays in Boiler Crown

Diam. of Rivet Holes

Height of Rivet Crown above Fire Grate

Are Rivet Crown Flat or Dished?

Internal Radius of Dished Crown

Diam. of Crown Stays

Internal Diam. of Rivet at Top

No. of Water Tubes

Material of Water Tubes

Size of Manhole in Shell

Dimensions of Compensation Pipe

Height of Water Level

SUPERHEATERS.

Description of Superheater

Where situated?

Which Boilers are connected to the superheater?

Can superheaters be shut off while Boilers are working?

No. of Safety Valves on each Superheater

Date of Examination?

Pressure on Tubes



© 2020

Lloyd's Register
Foundation

VERTICAL DONKEY BOILERS.

No. of Boilers *in Pair* 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 Diar.

Are " " fitted with Easing Gear?

Date of Hydraulic Test Test Pressure

Date when Safety Valves set Pressure on Valves

MAIN STEAM PIPES

No. of Pipes

Material

Internal, Welded or Seamless

Internal Diar.

Thickness

How and Pumps secured?

Date of Hydraulic Test

Test Pressure

No. of Pipes

Material

Internal, Welded or Seamless

Internal Diar.

Thickness

How and Pumps secured?

Date of Hydraulic Test

Test Pressure

No. of Pipes

Material

Internal, Welded or Seamless

Internal Diar.

Thickness

How and Pumps secured?

Date of Hydraulic Test

Test Pressure



© 2020

Lloyd's Register
Foundation

MAIN STEAM PIPES.

No. of Lengths	2		
Material	Copper.		
Brazed, Welded or Seamless	S.O.		
Internal Diam.	3 1/4"		
Thickness	Stall.		
How are Flanges secured?	braked.		
Date of Hydraulic Test	3-5-27		
Test Pressure	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			

SUPERHEATERS

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

LIST OF EVAPORATORS

1. Horizontal Copper Pipe, 12' long, 1" diam. by Macdonald

2. Vertical Copper Pipe, 12' long, 1" diam. by Macdonald

3. Horizontal Copper Pipe, 12' long, 1" diam. by Macdonald

4. Horizontal Copper Pipe, 12' long, 1" diam. by Macdonald

5. Horizontal Copper Pipe, 12' long, 1" diam. by Macdonald

6. Horizontal Copper Pipe, 12' long, 1" diam. by Macdonald

7. Horizontal Copper Pipe, 12' long, 1" diam. by Macdonald

8. Horizontal Copper Pipe, 12' long, 1" diam. by Macdonald

9. Horizontal Copper Pipe, 12' long, 1" diam. by Macdonald

10. Horizontal Copper Pipe, 12' long, 1" diam. by Macdonald

11. Horizontal Copper Pipe, 12' long, 1" diam. by Macdonald

12. Horizontal Copper Pipe, 12' long, 1" diam. by Macdonald

13. Horizontal Copper Pipe, 12' long, 1" diam. by Macdonald

14. Horizontal Copper Pipe, 12' long, 1" diam. by Macdonald

15. Horizontal Copper Pipe, 12' long, 1" diam. by Macdonald

16. Horizontal Copper Pipe, 12' long, 1" diam. by Macdonald

17. Horizontal Copper Pipe, 12' long, 1" diam. by Macdonald

18. Horizontal Copper Pipe, 12' long, 1" diam. by Macdonald

19. Horizontal Copper Pipe, 12' long, 1" diam. by Macdonald

20. Horizontal Copper Pipe, 12' long, 1" diam. by Macdonald



© 2020

Lloyd's Register
Foundation

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
1	Exhaust Steam.	Holder Brooke	180 lbs.	400 lbs.	

FEED WATER FILTERS.

No.	Type	Makers	Working Pressure	Test Pressure	Date of Test
1	High pressure.	Maccall & Pallock.	180 lbs.	400 lbs.	

Size 2 1/4"

LIST OF DONKEY PUMPS.

Head General Service Pump.
Vertical Duplex D.H. by Maccall
& Pallock 6" x 4" x 6"

Ballast pump. Vertical Duplex
by Maccall & Pallock 9 1/2" x 11 1/2" x 11"

Circulating pump. Vertical Duplex
by Maccall & Pallock 9" x 10" x 10"

Sanitary pump. Horizontal duplex
by A. V. Mumford Ltd 3 1/2" x 3 1/2" x 4"

Fresh water pump. Horizontal duplex
by A. V. Mumford Ltd 3 1/2" x 3 1/2" x 4"



© 2020

Lloyd's Register
Foundation

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

OTHER ARTICLES OF SPARE GEAR:—

© 2020

Lloyd's Register
Foundation

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.

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

© 2020

Lloyd's Register
Foundation

ELECTRIC LIGHTING

Installation Fitted by

R. Pickercill Sons

No. and Description of Dynamos

One compound wound.
Dundeland Lodge Eng 6/10

Makers of Dynamos

Lundeland Forge Eng & Co

Capacity " 91 Amperes, at 110 Volts, 350 Revols. per Min.

Current Alternating or Continuous

Continuous

Single or Double Wire System

Double.

Position of Dynamos

Starboard side Engine Room

“ 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.
----------	-------------------	---------------	-------------------------	--------------------	------------------	----------------------------	---------------------------------

Positions of Auxillary 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 of 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 12-5-27 Duration of Trial 6 hours.

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

It is submitted that this Report be approved.

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

Approved by the Committee for assistance for assistance

WATER & REYNOLDS © 2020

Lloyd's Register Foundation

GENERAL CONSTRUCTION.

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

Approved Plans? *yfs.*

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

Surveyor.

Fees—

MAIN BOILERS.

H.S. *2136* Sq. ft. *16* : 0 : 0

G.S. *64* " : :

DONKEY BOILERS.

H.S. ✓ Sq. ft. : :

G.S. ✓ " : :

£ : :

ENGINES.

L.P.C. *23.65* Cub. ft. *22* : 0 : 0

£ : :

Testing, &c. ... *EL* ... *10* : 0 : 0

£ : :

Expenses ... : :

Total ... £ *48* : 0 : 0

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 *21st August 1927*



© 2020

Fees advised

Fees paid

Lloyd's Register
Foundation
Secretary.

The above correctly describes the Machinery of the S.S. WALTER. B. REYNOLDS

as ascertained by ^{me} from personal examination

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

GENERAL CONSTRUCTION

MAN DOUGLAS, owner of the building, has been notified and advised of the results of the investigation.

H.S. 1136 10 : 0 : 00 10 : 0 : 00 10 : 0 : 00

MAN DOUGLAS, owner of the building, has been notified and advised of the results of the investigation.

DOUGLAS, owner of the building, has been notified and advised of the results of the investigation.

H.S. 1136 10 : 0 : 00 10 : 0 : 00 10 : 0 : 00

DOUGLAS, owner of the building, has been notified and advised of the results of the investigation.

H.S. 1136 10 : 0 : 00 10 : 0 : 00 10 : 0 : 00

H.S. 1136 10 : 0 : 00 10 : 0 : 00 10 : 0 : 00

H.S. 1136 10 : 0 : 00 10 : 0 : 00 10 : 0 : 00

H.S. 1136 10 : 0 : 00 10 : 0 : 00 10 : 0 : 00

H.S. 1136 10 : 0 : 00 10 : 0 : 00 10 : 0 : 00

H.S. 1136 10 : 0 : 00 10 : 0 : 00 10 : 0 : 00

It is submitted that this Report be approved.

MAN DOUGLAS, owner of the building, has been notified and advised of the results of the investigation.

DOUGLAS, owner of the building, has been notified and advised of the results of the investigation.

Approved by the Committee for the Class of M.E.S. on the 10th day of 1910.

WALTER B. REYNOLDS

DOUGLAS, owner of the building, has been notified and advised of the results of the investigation.

DOUGLAS, owner of the building, has been notified and advised of the results of the investigation.

DOUGLAS, owner of the building, has been notified and advised of the results of the investigation.



© 2020

Lloyd's Register
Foundation



© 2020

Lloyd's Register
Foundation



© 2020

Lloyd's Register
Foundation



© 2020

Lloyd's Register
Foundation