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Cardiff

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THE BRITISH CORPORATION REGISTER OF SHIPPING AND AIRCRAFT

SURVEY FOR FREEBOARD

23

STEAMER, TANKER, SAILER... NEW WESTMINSTER CITY S.S. WITH TIMBER DECK CARGO
 Nationality British Builders' Name and No. of Ship Wm Gray & Co. Ltd N° 1018
 Port of Registry Bideford Owners Reardon Smith Line Ltd Cardiff
 Official Number 148838 Port and Date of Survey Cardiff 7-4-32
 Gross Tonnage 4747 Name of Surveyor Joseph A. Macdonald
 Date of Build 7/1929

Particulars of Classification B.S. * (with freeboard) Names of Sister Ships "PRINCE RUPERT CITY", "TACOMA CITY", "BRADBURN", "VERNON CITY", "VICTORIA CITY", "BRADGLEN"

Type of Superstructures Complete Superstructure with middle line opening aft with full height coaming etc. (presently closed)

Give full particulars of the following:—

Fiddle and Funnel Coamings (state height of coamings, type of fiddle covers, and if these are permanently attached in their proper positions)

None coaming top. Funnel coamings 2'6", fiddle coamings 3' angle + hinged steel covers permanently attached to coaming top.

Flush Bunker Scuttles on freeboard and superstructure decks (state material, type of joints, etc., and if secured by hinge or permanent chain attachment) none

Companionways on freeboard and superstructure decks (state material, height of doorway sills, type of doors, and if these can be closed and secured from both sides)

steel house round fore & main masts with under entrance openings to all holds & between decks, steel doors made of house 5'6" x 1'10" x 6" all opening from either side, one outside door to steel house 5' x 2' with 18" sill.

Ventilators in exposed positions on freeboard, raised quarter and superstructure decks (state height of steel coamings, pitch of rivets in deck connection, type of closing arrangements)

all exposed ventilators have coamings 36" high, pitch of rivets in deck 3 1/2", wood plugs for each vent.

Airpipes in exposed positions on freeboard, raised quarter and superstructure decks (state height to opening and if satisfactory closing arrangements are provided)

minimum height above superstructure deck 26", wood plugs for closing.

Scuppers and Sanitary Discharge Pipes (state material, type and number of valves)

six scuppers each side from upper deck thru shell & above deck each with clack valve, 3 plugged permanently closed & led to main side bilge. Sanitary Disch. Pipes. Port side 4 each 1 1/2" dia w I pipe with clack valve in coaming; 3 at 1 1/2" dia w I pipe no valves. Starboard side 2 each 1 1/2" dia w I pipe with clack valve in coaming; 4 at 1 1/2" dia w I pipe no valves; other pipes discharge 20" above upper deck.

Side Scuttles to spaces below freeboard and superstructure decks (state type or pattern, and if permanent or portable deadlights are supplied)

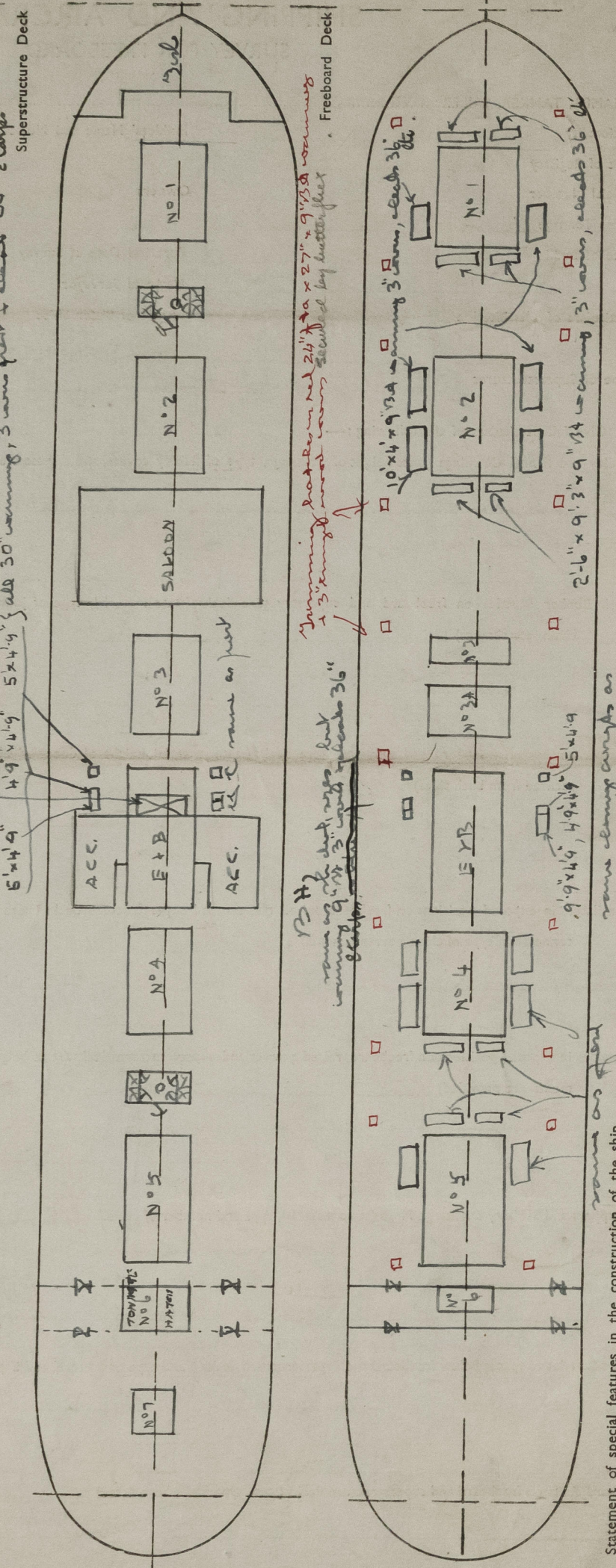
No side scuttles below superstructure deck

Guard Rails on freeboard and superstructure decks (state type and where fitted)

Starboard 3'6" high for 1/2 length, fore & aft shell & P. forward, 3 bar transverse chain 3'6" high

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Superstructure bulkheads, trunks, deckhouses, casings, cargo and coaling hatches, extent and thickness of deck sheathing, gangway, and any other openings, etc., which would affect the seaworthiness of the ship are to be shown on the following sketches.



Statement of special features in the construction of the ship

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COMPUTATION OF FREEBOARD.

Length on summer load line 400' Moulded Breadth 54'-0 1/2" Moulded Depth 28'-0 1/2" Depth of Keel 13'
Moulded displacement (ex bossing) at moulded draught of 85 per cent. of moulded depth 11232 1/2 Tons
Co-efficient of fineness for use with tables $\frac{\Delta \times 35}{L \times B \times D \times 85} = .7628$ TC 75
Displacement and tons per inch immersion in salt water at summer load line 11902 1/2 44
Moulded depth 28.042 Deduction for Fresh Water $\frac{\Delta}{40T} = \frac{11902}{40 \times 44} = 6.77$ inches
Stringer Plate .037 Round of Beam Correction 13.5 inches
Sheathing on exposed deck T $(\frac{L-S}{L}) = 1$ Ships Round of Beam 12.97
Rise of floor (in sailers) 28.079 Standard Round of Beam $\frac{B \times 12}{50} = 12.97$
Depth for Freeboard (D) 26.667 Difference .53
Table Depth 1.412 x 3 Restricted to
Depth Correction = 4.236 Correction $\frac{\text{Difference}}{4} \times (1 - \frac{F}{L}) = .133 \times .00875 = 0$
If restricted by superstructures

	Enclosed Length	Length of Overhang	Height	Mean Covered Length (S)	Height Correction	Effective Length (E)
Poop	24.69		8'-10 1/2"	24.69		24.69
Raised Quarter Deck		F				
Bridge	368.31	A	8'-10 1/2"	368.31		368.31
Forecastle						
Trunk Aft						
Forward						
Tonnage Opening Aft	7		8'-10 1/2"	7		3.5
Forward						
Totals				400		396.5

Station	Actual Sheer	Standard Sheer	Effective Sheer	S.M.	Product
A.P.	51.0	50	51	1	51.0
1/2 L from A.P.	22.0	22.25	22	4	88.0
1/2 L from A.P.	5.75	5.5	5.75	2	11.5
Amidships	0	0	0	4	0
1/2 L from F.P.	12.5	11.0	12.5	2	25.0
1/2 L	40	44.5	46	4	184.0
F.P.	105	100	105	1	105.0
				18	464.5
Effective Mean Sheer					25.806
Standard					8.5
Difference					21.306
					6.306

Mean Actual sheer aft = greater than 1
Mean Actual sheer forward = greater than 1
Length of enclosed superstructure forward of amidships = Length of Ship
Length of enclosed superstructure aft of amidships = Length of Ship
Sheer Correction = Difference $\times (\frac{75}{2L}) = 6.306 \times .25 = 1.577$
If limited on account of midship superstructure =
to maximum allowance of 1 1/2 ins. per 100 ft. =

TABULAR FREEBOARD corrected for flush deck if required = 71.5
Correction for co-efficient = $71.5 \times \frac{1.4428}{1.26} = 75.86$

	+	-
Depth correction	4.24	-
Deduction for superstructures	-	41.55
Sheer correction	-	1.58
Round of Beam correction	-	-
Correction for thickness of deck amidships	-	-
Other corrections, scantlings, etc.	-	-
	4.24	43.13
		-38.89

Summer Freeboard in inches = 36.97
Additional allowance for superstructures on Timber carrying ships = .22
Summer Timber Freeboard in inches = 30.75
6.25
30.5

	Sailor, Tanker, Steamer	Timber
Depth to Freeboard Deck in feet	28.079	28.079
Summer Freeboard in feet	3.081	3.062
Moulded Draught (d)	24.998	25.017 (d1.)
Addition for Keel		
Extreme draught		
Deduction for Tropical and addition for Winter freeboard $d/4 = 6.25$ ins. $\frac{1}{4} \times 25 = 6.25$		
Addition for Winter North Atlantic (if required)		
Deduction for Tropical Timber Freeboard $\frac{d1}{4}$		6.25 ins.
Addition for Winter		8.34 ins.
N.A. Timber Freeboard (if required)		

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Reassigned (in RED) 9-5-41 in accordance with M/S memo M3381/41
See Middleborough report dated 16-5-41

SUMMER FREEBOARD recommended amidships from centre of disc to top of deck line, (steel)	3'-1" 11'-4" - 3 1/2
TROPICAL FRESH WATER LINE above centre of disc	13'
FRESH WATER LINE	6 1/2'
TROPICAL LINE	6 1/2'
WINTER LINE below	6'
WINTER NORTH ATLANTIC LINE	3'-7" 11'-10" - 3
SUMMER TIMBER FREEBOARD recommended amidships from centre of disc to top of deck line (1/2 above S)	3'-0 1/2"
TROPICAL FRESH WATER Timber line above centre of disc	12 1/2'
FRESH WATER	6 1/2'
TROPICAL	6'
WINTER below	6 1/2'
WINTER NORTH ATLANTIC	3'-7"

Increase in draught 7 1/4" Validity of LL cert. 12 months from 19-5-41

	Coaming	Plating	Stiffeners	Spacing	End Attachments	No. and size of Openings	Height of Sills	Height of Casings
Poop Bulkhead	3	3	3 1/2" x 3" x 3	38"	2 x 5' x 3'-1"	1'-8"		
R.Q.D.								
Bridge Aft Bulkhead	3	3	3 1/2" x 3" x 3	27"	2 x 5' x 3'-1"	1'-8"		
Forward								
Forecastle Bulkhead								
Trunk, Aft								
Forward								
Exposed Machinery Casings on Freeboard or R.Q. Decks								
Exposed Machinery Casings on superstructure decks	375	3	3 1/2" x 3" x 3	30"	2 each side 5' x 2' 1/2" down	1'-6"	8'-0"	
Machinery Casings within Superstructures not fitted with Cl. 1. closing appliances	375	3	3" x 3" x 3	30"	1 each side 27" x 28" 1/2" down	1'-7"	8'-10 1/2"	
Deckhouses on flush deck ships								

PARTICULARS OF CLOSING APPLIANCES (state if capable of being manipulated from both sides)

Poop Bulkhead	Weather boards full height in channels riveted to hull.
R.Q.D.	
Bridge Aft Bulkhead	Weather boards full height in channels riveted to hull.
Forward	
Forecastle Bulkhead	
Exposed Machinery Casings on Freeboard or R.Q. decks	
Exposed Machinery Casings on superstructure decks	2 each side 5' x 2'
Machinery Casings within superstructures not fitted with Cl. 1. Closing Appliances	1 each side 27" x 28"
Deck houses on Flush Deck ships	

PARTICULARS OF FREEING ARRANGEMENTS

	Length of Bulwark	Height of Bulwark	No. and size of Freeing Ports each side	Area each side	Rule Area
Tonnage After Well	7'	8'-10 1/2"	one at 2'-2" x 1'-5" opening permanently closed	3 sq	
Forward Well					
State fore and aft position and height above deck to bottom of port, for each port			middle of well, 3" to bottom of port.		
State whether freeing ports are fitted with shutters, bars or rails, and give particulars			lugged door		
Give particulars of freeing port area, etc., on superstructure decks			bulwarks 125 ft long, 4 ft high, 8 ft wide, no rails on doors, bottom of opening 8' above deck		

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PARTICULARS OF ALL HATCHWAYS ON FREEBOARD AND SUPERSTRUCTURE DECKS

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PARTICULARS

Number and description of Hatchway	Dimensions of Hatchway	Height above deck	Thickness	Stiffeners	Brackets or Stays	Number	Spacing	Scantling and Sketch	Bearing Surface and thickness of carriers or sockets	Number	Spacing	Unsupported lengths	Scantling and Sketch	Bearing Surface and thickness of carriers or sockets	Material	Thickness	How Fitted	Bearing Surface	Spacing of Cleats	Number of Tarpaulins
COAMINGS	27' x 20'	30"	44	7-3-4 9A 10A 11A 12A 13A 14A 15A 16A 17A 18A 19A 20A 21A 22A 23A 24A 25A 26A 27A 28A 29A 30A 31A 32A 33A 34A 35A 36A 37A 38A 39A 40A 41A 42A 43A 44A 45A 46A 47A 48A 49A 50A 51A 52A 53A 54A 55A 56A 57A 58A 59A 60A 61A 62A 63A 64A 65A 66A 67A 68A 69A 70A 71A 72A 73A 74A 75A 76A 77A 78A 79A 80A 81A 82A 83A 84A 85A 86A 87A 88A 89A 90A 91A 92A 93A 94A 95A 96A 97A 98A 99A 100A 101A 102A 103A 104A 105A 106A 107A 108A 109A 110A 111A 112A 113A 114A 115A 116A 117A 118A 119A 120A 121A 122A 123A 124A 125A 126A 127A 128A 129A 130A 131A 132A 133A 134A 135A 136A 137A 138A 139A 140A 141A 142A 143A 144A 145A 146A 147A 148A 149A 150A 151A 152A 153A 154A 155A 156A 157A 158A 159A 160A 161A 162A 163A 164A 165A 166A 167A 168A 169A 170A 171A 172A 173A 174A 175A 176A 177A 178A 179A 180A 181A 182A 183A 184A 185A 186A 187A 188A 189A 190A 191A 192A 193A 194A 195A 196A 197A 198A 199A 200A 201A 202A 203A 204A 205A 206A 207A 208A 209A 210A 211A 212A 213A 214A 215A 216A 217A 218A 219A 220A 221A 222A 223A 224A 225A 226A 227A 228A 229A 230A 231A 232A 233A 234A 235A 236A 237A 238A 239A 240A 241A 242A 243A 244A 245A 246A 247A 248A 249A 250A 251A 252A 253A 254A 255A 256A 257A 258A 259A 260A 261A 262A 263A 264A 265A 266A 267A 268A 269A 270A 271A 272A 273A 274A 275A 276A 277A 278A 279A 280A 281A 282A 283A 284A 285A 286A 287A 288A 289A 290A 291A 292A 293A 294A 295A 296A 297A 298A 299A 300A 301A 302A 303A 304A 305A 306A 307A 308A 309A 310A 311A 312A 313A 314A 315A 316A 317A 318A 319A 320A 321A 322A 323A 324A 325A 326A 327A 328A 329A 330A 331A 332A 333A 334A 335A 336A 337A 338A 339A 340A 341A 342A 343A 344A 345A 346A 347A 348A 349A 350A 351A 352A 353A 354A 355A 356A 357A 358A 359A 360A 361A 362A 363A 364A 365A 366A 367A 368A 369A 370A 371A 372A 373A 374A 375A 376A 377A 378A 379A 380A 381A 382A 383A 384A 385A 386A 387A 388A 389A 390A 391A 392A 393A 394A 395A 396A 397A 398A 399A 400A 401A 402A 403A 404A 405A 406A 407A 408A 409A 410A 411A 412A 413A 414A 415A 416A 417A 418A 419A 420A 421A 422A 423A 424A 425A 426A 427A 428A 429A 430A 431A 432A 433A 434A 435A 436A 437A 438A 439A 440A 441A 442A 443A 444A 445A 446A 447A 448A 449A 450A 451A 452A 453A 454A 455A 456A 457A 458A 459A 460A 461A 462A 463A 464A 465A 466A 467A 468A 469A 470A 471A 472A 473A 474A 475A 476A 477A 478A 479A 480A 481A 482A 483A 484A 485A 486A 487A 488A 489A 490A 491A 492A 493A 494A 495A 496A 497A 498A 499A 500A 501A 502A 503A 504A 505A 506A 507A 508A 509A 510A 511A 512A 513A 514A 515A 516A 517A 518A 519A 520A 521A 522A 523A 524A 525A 526A 527A 528A 529A 530A 531A 532A 533A 534A 535A 536A 537A 538A 539A 540A 541A 542A 543A 544A 545A 546A 547A 548A 549A 550A 551A 552A 553A 554A 555A 556A 557A 558A 559A 560A 561A 562A 563A 564A 565A 566A 567A 568A 569A 570A 571A 572A 573A 574A 575A 576A 577A 578A 579A 580A 581A 582A 583A 584A 585A 586A 587A 588A 589A 590A 591A 592A 593A 594A 595A 596A 597A 598A 599A 600A 601A 602A 603A 604A 605A 606A 607A 608A 609A 610A 611A 612A 613A 614A 615A 616A 617A 618A 619A 620A 621A 622A 623A 624A 625A 626A 627A 628A 629A 630A 631A 632A 633A 634A 635A 636A 637A 638A 639A 640A 641A 642A 643A 644A 645A 646A 647A 648A 649A 650A 651A 652A 653A 654A 655A 656A 657A 658A 659A 660A 661A 662A 663A 664A 665A 666A 667A 668A 669A 670A 671A 672A 673A 674A 675A 676A 677A 678A 679A 680A 681A 682A 683A 684A 685A 686A 687A 688A 689A 690A 691A 692A 693A 694A 695A 696A 697A 698A 699A 700A 701A 702A 703A 704A 705A 706A 707A 708A 709A 710A 711A 712A 713A 714A 715A 716A 717A 718A 719A 720A 721A 722A 723A 724A 725A 726A 727A 728A 729A 730A 731A 732A 733A 734A 735A 736A 737A 738A 739A 740A 741A 742A 743A 744A 745A 746A 747A 748A 749A 750A 751A 752A 753A 754A 755A 756A 757A 758A 759A 760A 761A 762A 763A 764A 765A 766A 767A 768A 769A 770A 771A 772A 773A 774A 775A 776A 777A 778A 779A 780A 781A 782A 783A 784A 785A 786A 787A 788A 789A 790A 791A 792A 793A 794A 795A 796A 797A 798A 799A 800A 801A 802A 803A 804A 805A 806A 807A 808A 809A 810A 811A 812A 813A 814A 815A 816A 817A 818A 819A 820A 821A 822A 823A 824A 825A 826A 827A 828A 829A 830A 831A 832A 833A 834A 835A 836A 837A 838A 839A 840A 841A 842A 843A 844A 845A 846A 847A 848A 849A 850A 851A 852A 853A 854A 855A 856A 857A 858A 859A 860A 861A 862A 863A 864A 865A 866A 867A 868A 869A 870A 871A 872A 873A 874A 875A 876A 877A 878A 879A 880A 881A 882A 883A 884A 885A 886A 887A 888A 889A 890A 891A 892A 893A 894A 895A 896A 897A 898A 899A 900A 901A 902A 903A 904A 905A 906A 907A 908A 909A 910A 911A 912A 913A 914A 915A 916A 917A 918A 919A 920A 921A 922A 923A 924A 925A 926A 927A 928A 929A 930A 931A 932A 933A 934A 935A 936A 937A 938A 939A 940A 941A 942A 943A 944A 945A 946A 947A 948A 949A 950A 951A 952A 953A 954A 955A 956A 957A 958A 959A 960A 961A 962A 963A 964A 965A 966A 967A 968A 969A 970A 971A 972A 973A 974A 975A 976A 977A 978A 979A 980A 981A 982A 983A 984A 985A 986A 987A 988A 989A 990A 991A 992A 993A 994A 995A 996A 997A 998A 999A 1000A 1001A 1002A 1003A 1004A 1005A 1006A 1007A 1008A 1009A 1010A 1011A 1012A 1013A 1014A 1015A 1016A 1017A 1018A 1019A 1020A 1021A 1022A 1023A 1024A 1025A 1026A 1027A 1028A 1029A 1030A 1031A 1032A 1033A 1034A 1035A 1036A 1037A 1038A 1039A 1040A 1041A 1042A 1043A 1044A 1045A 1046A 1047A 1048A 1049A 1050A 1051A 1052A 1053A 1054A 1055A 1056A 1057A 1058A 1059A 1060A 1061A 1062A 1063A 1064A 1065A 1066A 1067A 1068A 1069A 1070A 1071A 1072A 1073A 1074A 1075A 1076A 1077A 1078A 1079A 1080A 1081A 1082A 1083A 1084A 1085A 1086A 1087A 1088A 1089A 1090A 1091A 1092A 1093A 1094A 1095A 1096A 1097A 1098A 1099A 1100A 1101A 1102A 1103A 1104A 1105A 1106A 1107A 1108A 1109A 1110A 1111A 1112A 1113A 1114A 1115A 1116A 1117A 1118A 1119A 1120A 1121A 1122A 1123A 1124A 1125A 1126A 1127A 1128A 1129A 1130A 1131A 1132A 1133A 1134A 1135A 1136A 1137A 1138A 1139A 1140A 1141A 1142A 1143A 1144A 1145A 1146A 1147A 1148A 1149A 1150A 1151A 1152A 1153A 1154A 1155A 1156A 1157A 1158A 1159A 1160A 1161A 1162A 1163A 1164A 1165A 1166A 1167A 1168A 1169A 1170A 1171A 1172A 1173A 1174A 1175A 1176A 1177A 1178A 1179A 1180A 1181A 1182A 1183A 1184A 1185A 1186A 1187A 1188A 1189A 1190A 1191A 1192A 1193A 1194A 1195A 1196A 1197A 1198A 1199A 1200A 1201A 1202A 1203A 1204A 1205A 1206A 1207A 1208A 1209A 1210A 1211A 1212A 1213A 1214A 1215A 1216A 1217A 1218A 1219A 1220A 1221A 1222A 1223A 1224A 1225A 1226A 1227A 1228A 1229A 1230A 1231A 1232A 1233A 1234A 1235A 1236A 1237A 1238A 1239A 1240A 1241A 1242A 1243A 1244A 1245A 1246A 1247A 1248A 1249A 1250A 1251A 1252A 1253A 1254A 1255A 1256A 1257A 1258A 1259A 1260A 1261A 1262A 1263A 1264A 1265A 1266A 1267A 1268A 1269A 1270A 1271A 1272A 1273A 1274A 1275A 1276A 1277A 1278A 1279A 1280A 1281A 1282A 1283A 1284A 1285A 1286A 1287A 1288A 1289A 1290A 1291A 1292A 1293A 1294A 1295A 1296A 1297A 1298A 1299A 1300A 1301A 1302A 1303A 1304A 1305A 1306A 1307A 1308A 1309A 1310A 1311A 1312A 1313A 1314A 1315A 1316A 1317A 1318A 1319A 1320A 1321A 1322A 1323A 1324A 1325A 1326A 1327A 1328A 1329A 1330A 1331A 1332A 1333A 1334A 1335A 1336A 1337A 1338A 1339A 1340A 1341A 1342A 1343A 1344A 1345A 1346A 1347A 1348A 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2179A 2180A 2181A 2182A 2183A 2184A 2185A 2186A 2187A 2188A 2189A 2190A 2191A 2192A 2193A 2194A 2195A 2196A 2197A 2198A 2199A 2200A 2201A 2202A 2203A 2204A 2205A 2206A 2207A 2208A 2209A 2210A 2211A 2212A 22																

[Surveyors are to note that wood fore and afters are to be steel shod at all bearing surfaces.]

(except the south corner the inside of
 the flue-arch), was on inside of
 cooling track on top of B casing 7'-9" x 14" with 8 1/2 B
 5" were fitted for a, 2 1/2" for A, each, 2 1/2" apart & 3 feet

Are wood fore and afters steel shod at all bearing surfaces?

Are battens and wedges efficient and in good condition?

Are tawny in color

are carpenter in good condition and in accordance with Rule

Are lashings provided in accordance with rule requirements?

Gangways and Lifelines

Wire life Lines from forecstle to fore end of deck house

Gangway, Cargo and Coaling Ports in sides of ship

SUPPLEMENTARY REQUIREMENTS FOR STEAMER CARRYING TIMBER DECK CARGOES

Do Superstructures and Machinery Casings comply with rules?

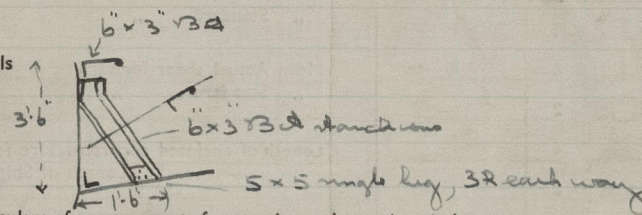
Is provision made for protection of steering gear, and is emergency steering gear provided?

Are efficient uprights, sockets and lashings provided according to rules?

State particulars of longitudinal subdivision in double bottom

No 2, 3, 4 & 5 bands, lower center long W.T.

State particulars of Bulwarks and Rails



Approval date of plans and full particulars of arrangements for stowing and securing timber

The scantlings and protective arrangements being in accordance with the Freeboard rules it is submitted that the freeboard be assigned

Passed at a meeting of the Committee of Management of the British Corporation Register of Shipping and Aircraft

on the 25th May 1932.

11th June 1941

Chief Surveyor

nd Aircraft
Lloyd's Register
Foundation
Carstairs Secretary.

Secretary