

MON. 27 MAR. 1922

Date of writing Report 14 March 1922 When handed in at Local Office

10

Port of Amsterdam

No. in Survey held at Westerbreek & Hoogerland Date, First Survey 13 February 20 Last Survey 2 March 1922

Reg. Book.

39110 on the Steel single screw steamer "MACHADO" ex Torbril (Number of Visits 25)

Gross 943 -
Net 554 -

Master Built at Westerbreek By whom built E. J. Smid & Zoon When built 1922

Engines made at Hoogerland By whom made E. J. Smid & Zoon when made 1922

Boilers made at Hoogerland By whom made E. J. Smid & Zoon when made 1922

Registered Horse Power Owners F. R. Howe & Co Port belonging to Newport Mon

Nom. Horse Power as per Section 28 105 Is Refrigerating Machinery fitted for cargo purposes No Is Electric Light fitted No

ENGINES, &c.—Description of Engines

Triple exp.

No. of Cylinders 3 No. of Cranks 3

Dia. of Cylinders 15 x 23 1/2 x 39 1/2 Length of Stroke 25 1/2 Revs. per minute 90 Dia. of Screw shaft as per rule 2 1/4 Material of screw shaft S.M.S.

Is the screw shaft fitted with a continuous liner the whole length of the stern tube no liners Is the after end of the liner made water tight

in the propeller boss Yes If the liner is in more than one length are the joints burned If the liner does not fit tightly at the part

between the bearings in the stern tube, is the space charged with a plastic material insoluble in water and non-corrosive If two

liners are fitted, is the shaft lapped or protected between the liners Length of stern bush 35.6

Dia. of Tunnel shaft as per rule 7.1 Dia. of Crank shaft journals as per rule 7.45 Dia. of Crank pin 7.67 Size of Crank webs 3.5 x 4 Dia. of thrust shaft under

collars 7.67 Dia. of screw 9-10 Pitch of Screw 10-2 No. of Blades 4 State whether moveable No Total surface 35.3

No. of Feed pumps 2 Diameter of ditto 2 1/2 Stroke 11 7/8 Can one be overhauled while the other is at work Yes

No. of Bilge pumps 2 Diameter of ditto 2 1/2 Stroke 11 7/8 Can one be overhauled while the other is at work Yes

No. of Donkey Engines 2 Sizes of Pumps 5 1/2 x 3.5 x 5 1/2 x 6 x 7.5 x 6 No. and size of Suctions connected to both Bilge and Donkey pumps

In Engine Room Nine, 2 1/2 and one tunnel well In Holds, &c. In hold No. 1: 2 x 2 in aft hold 2 x 2

No. of Bilge Injections 1 sizes 3 1/2 Connected to condenser, or to circulating pump Is a separate Donkey Suction fitted in Engine room & size Yes 2 1/2

Are all the bilge suction pipes fitted with roses Yes Are the roses in Engine room always accessible Yes Are the sluices on Engine room bulkheads always accessible None

Are all connections with the sea direct on the skin of the ship Yes Are they Valves or Cocks valves & cocks

Are they fixed sufficiently high on the ship's side to be seen without lifting the stokehold plates Yes Are the Discharge Pipes above or below the deep water line Yes

Are they each fitted with a Discharge Valve always accessible on the plating of the vessel Yes Are the Blow Off Cocks fitted with a spigot and brass covering plate Yes

What pipes are carried through the bunkers None How are they protected

Are all Pipes, Cocks, Valves, and Pumps in connection with the machinery and all boiler mountings accessible at all times Yes

Are the Bilge Suction Pipes, Cocks, and Valves arranged so as to prevent any communication between the sea and the bilges Yes

Is the Screw Shaft Tunnel watertight Yes Is it fitted with a watertight door Yes worked from bulwark engine platform

BOILERS, &c.—(Letter for record S 5) Manufacturers of Steel A. G. Phoenix Hot Holder Kersin

Total Heating Surface of Boilers 14300 Is Forced Draft fitted No No. and Description of Boilers 2 Single ended

Working Pressure 106 lbs Tested by hydraulic pressure to 372 lbs Date of test 8-2-21 No. of Certificate 293-294

Can each boiler be worked separately Yes Area of fire grate in each boiler 29.60 No. and Description of Safety Valves to

each boiler 2 Spring loaded Area of each valve 2.14 Pressure to which they are adjusted 106 lbs Are they fitted with easing gear Yes

Smallest distance between boilers or uptakes and bunkers or woodwork 13 Mean dia. of boilers 11.8 Length 20 Material of shell plates S.M.S.

Thickness 7/8 Range of tensile strength 30.5 Are the shell plates welded or flanged Descrip. of riveting: cir. seams all

long. seams quadruple Diameter of rivet holes in long. seams 1.1 Pitch of rivets 7.67 Lap of plates or width of butt straps 17 1/2 x 7/8

Per centages of strength of longitudinal joint rivets 101.2 Working pressure of shell by rules 209 lbs Size of manhole in shell 12 x 16

Size of compensating ring 27 1/2 x 32 1/2 x 1 No. and Description of Furnaces in each boiler 2 Morrison's Material S.M.S. Outside diameter 39 1/4

Length of plain part top Thickness of plates crown 5 1/2 Description of longitudinal joint welded No. of strengthening rings

Working pressure of furnace by the rules 145 lbs Combustion chamber plates: Material S.M.S. Thickness: Sides 1 1/8 Back 3/4 Top 1 1/8 Bottom 1 1/8

Pitch of stays to ditto: Sides 7 x 7.40 Back 7.40 x 7.40 Top 7.20 If stays are fitted with nuts or riveted heads riveted Working pressure by rules 196 lbs

Material of stays S.M.S. Area at smallest part 1 1/8 Area supported by each stay 54.70 Working pressure by rules 106 lbs End plates in steam space:

Material S.M.S. Thickness 5 1/2 Pitch of stays 13.0 x 15.2 How are stays secured secured Working pressure by rules 215 lbs Material of stays S.M.S.

Area at smallest part 2 1/8 Area supported by each stay 211 Working pressure by rules 265 lbs Material of Front plates at bottom S.M.S.

Thickness 2 1/2 Material of Lower back plate S.M.S. Thickness 2 1/2 Greatest pitch of stays 13.0 x 7.4 Working pressure of plate by rules 373 lbs

Diameter of tubes 3 Pitch of tubes 4 x 4 Material of tube plates S.M.S. Thickness: Front 2 1/2 Back 2 1/2 Mean pitch of stays 9 x 9

Pitch across wide water spaces 14.7 Working pressures by rules 106 lbs Girders to Chamber tops: Material S.M.S. Depth and

thickness of girder at centre 8 1/2 x 2 x 1 Length as per rule 83 1/2 Distance apart 8 1/4 Number and pitch of stays in each 2 x 7 1/4

Working pressure by rules 243 lbs Steam dome: description of joint to shell % of strength of joint

Diameter Thickness of shell plates Material Description of longitudinal joint Diam. of rivet holes

Pitch of rivets Working pressure of shell by rules Crown plates Thickness How stayed

SUPERHEATER. Type Date of Approval of Plan Tested by Hydraulic Pressure to

Date of Test Is a Safety Valve fitted to each Section of the Superheater which can be shut off from the Boiler

Diameter of Safety Valve Pressure to which each is adjusted Is Easing Gear fitted

002174-002183-0203

IS A DONKEY BOILER FITTED?

no

If so, is a report now forwarded?

SPARE GEAR. State the articles supplied:—

connecting rod top and bottom nuts, 2 connecting rod bottom ends bolts & nuts, 2 main bearing bolts & nuts, 1 set of coupling bolts, 1 set of air circulation pump feed and blow pump valves, 1 set of piston rings, 1 spare propeller, 1 condenser tank, 1 quantity of assorted bolts & nuts. Iron of various sizes

The foregoing is a correct description,

E J Pritchard & Co

Manufacturer.

Dates of Survey while building { During progress of work in shops -- 1920. Feb 13, 24, 28 March 20, 23 April 9, 14 May 21 June 17 July 13 Aug 27 Sept 14 Oct 15 Nov 23, 1921. Feb 9, March 8, April 14 June 2, Aug 29. During erection on board vessel -- Oct 12, Jan 10, 24, Feb 18, 29, March 2. Total No. of visits 25.

Is the approved plan of main boiler forwarded herewith

" " " donkey " " "

Dates of Examination of principal parts—Cylinders 14 April 2 June Slides 14 April 2 June Covers 14 April 2 June Pistons 14 April 2 June Rods 14 April 2 June Connecting rods 14 April 2 June Crank shaft 14 April 2 June Thrust shaft 14 April 2 June Tunnel shafts 14 April 2 June Screw shaft 14 April 2 June Propeller 14 April 2 June Stern tube 14 April 2 June Steam pipes tested 14 January Engine and boiler seatings 10 January Engines holding down bolts 10 January Completion of pumping arrangements 25 February Boilers fixed 10 January Engines tried under steam 2 March Completion of fitting sea connections 12 October Stern tube 12 October Screw shaft and propeller 12 October Main boiler safety valves adjusted 2 March Thickness of adjusting washers 5/16 5/8 3/4 1 1/2 2 1/2 3 1/2 4 1/2 5 1/2 6 1/2 7 1/2 8 1/2 9 1/2 10 1/2 11 1/2 12 1/2 13 1/2 14 1/2 15 1/2 16 1/2 17 1/2 18 1/2 19 1/2 20 1/2 21 1/2 22 1/2 23 1/2 24 1/2 25 1/2 26 1/2 27 1/2 28 1/2 29 1/2 30 1/2 31 1/2 32 1/2 33 1/2 34 1/2 35 1/2 36 1/2 37 1/2 38 1/2 39 1/2 40 1/2 41 1/2 42 1/2 43 1/2 44 1/2 45 1/2 46 1/2 47 1/2 48 1/2 49 1/2 50 1/2 51 1/2 52 1/2 53 1/2 54 1/2 55 1/2 56 1/2 57 1/2 58 1/2 59 1/2 60 1/2 61 1/2 62 1/2 63 1/2 64 1/2 65 1/2 66 1/2 67 1/2 68 1/2 69 1/2 70 1/2 71 1/2 72 1/2 73 1/2 74 1/2 75 1/2 76 1/2 77 1/2 78 1/2 79 1/2 80 1/2 81 1/2 82 1/2 83 1/2 84 1/2 85 1/2 86 1/2 87 1/2 88 1/2 89 1/2 90 1/2 91 1/2 92 1/2 93 1/2 94 1/2 95 1/2 96 1/2 97 1/2 98 1/2 99 1/2 100 1/2 101 1/2 102 1/2 103 1/2 104 1/2 105 1/2 106 1/2 107 1/2 108 1/2 109 1/2 110 1/2 111 1/2 112 1/2 113 1/2 114 1/2 115 1/2 116 1/2 117 1/2 118 1/2 119 1/2 120 1/2 121 1/2 122 1/2 123 1/2 124 1/2 125 1/2 126 1/2 127 1/2 128 1/2 129 1/2 130 1/2 131 1/2 132 1/2 133 1/2 134 1/2 135 1/2 136 1/2 137 1/2 138 1/2 139 1/2 140 1/2 141 1/2 142 1/2 143 1/2 144 1/2 145 1/2 146 1/2 147 1/2 148 1/2 149 1/2 150 1/2 151 1/2 152 1/2 153 1/2 154 1/2 155 1/2 156 1/2 157 1/2 158 1/2 159 1/2 160 1/2 161 1/2 162 1/2 163 1/2 164 1/2 165 1/2 166 1/2 167 1/2 168 1/2 169 1/2 170 1/2 171 1/2 172 1/2 173 1/2 174 1/2 175 1/2 176 1/2 177 1/2 178 1/2 179 1/2 180 1/2 181 1/2 182 1/2 183 1/2 184 1/2 185 1/2 186 1/2 187 1/2 188 1/2 189 1/2 190 1/2 191 1/2 192 1/2 193 1/2 194 1/2 195 1/2 196 1/2 197 1/2 198 1/2 199 1/2 200 1/2 201 1/2 202 1/2 203 1/2 204 1/2 205 1/2 206 1/2 207 1/2 208 1/2 209 1/2 210 1/2 211 1/2 212 1/2 213 1/2 214 1/2 215 1/2 216 1/2 217 1/2 218 1/2 219 1/2 220 1/2 221 1/2 222 1/2 223 1/2 224 1/2 225 1/2 226 1/2 227 1/2 228 1/2 229 1/2 230 1/2 231 1/2 232 1/2 233 1/2 234 1/2 235 1/2 236 1/2 237 1/2 238 1/2 239 1/2 240 1/2 241 1/2 242 1/2 243 1/2 244 1/2 245 1/2 246 1/2 247 1/2 248 1/2 249 1/2 250 1/2 251 1/2 252 1/2 253 1/2 254 1/2 255 1/2 256 1/2 257 1/2 258 1/2 259 1/2 260 1/2 261 1/2 262 1/2 263 1/2 264 1/2 265 1/2 266 1/2 267 1/2 268 1/2 269 1/2 270 1/2 271 1/2 272 1/2 273 1/2 274 1/2 275 1/2 276 1/2 277 1/2 278 1/2 279 1/2 280 1/2 281 1/2 282 1/2 283 1/2 284 1/2 285 1/2 286 1/2 287 1/2 288 1/2 289 1/2 290 1/2 291 1/2 292 1/2 293 1/2 294 1/2 295 1/2 296 1/2 297 1/2 298 1/2 299 1/2 300 1/2 301 1/2 302 1/2 303 1/2 304 1/2 305 1/2 306 1/2 307 1/2 308 1/2 309 1/2 310 1/2 311 1/2 312 1/2 313 1/2 314 1/2 315 1/2 316 1/2 317 1/2 318 1/2 319 1/2 320 1/2 321 1/2 322 1/2 323 1/2 324 1/2 325 1/2 326 1/2 327 1/2 328 1/2 329 1/2 330 1/2 331 1/2 332 1/2 333 1/2 334 1/2 335 1/2 336 1/2 337 1/2 338 1/2 339 1/2 340 1/2 341 1/2 342 1/2 343 1/2 344 1/2 345 1/2 346 1/2 347 1/2 348 1/2 349 1/2 350 1/2 351 1/2 352 1/2 353 1/2 354 1/2 355 1/2 356 1/2 357 1/2 358 1/2 359 1/2 360 1/2 361 1/2 362 1/2 363 1/2 364 1/2 365 1/2 366 1/2 367 1/2 368 1/2 369 1/2 370 1/2 371 1/2 372 1/2 373 1/2 374 1/2 375 1/2 376 1/2 377 1/2 378 1/2 379 1/2 380 1/2 381 1/2 382 1/2 383 1/2 384 1/2 385 1/2 386 1/2 387 1/2 388 1/2 389 1/2 390 1/2 391 1/2 392 1/2 393 1/2 394 1/2 395 1/2 396 1/2 397 1/2 398 1/2 399 1/2 400 1/2 401 1/2 402 1/2 403 1/2 404 1/2 405 1/2 406 1/2 407 1/2 408 1/2 409 1/2 410 1/2 411 1/2 412 1/2 413 1/2 414 1/2 415 1/2 416 1/2 417 1/2 418 1/2 419 1/2 420 1/2 421 1/2 422 1/2 423 1/2 424 1/2 425 1/2 426 1/2 427 1/2 428 1/2 429 1/2 430 1/2 431 1/2 432 1/2 433 1/2 434 1/2 435 1/2 436 1/2 437 1/2 438 1/2 439 1/2 440 1/2 441 1/2 442 1/2 443 1/2 444 1/2 445 1/2 446 1/2 447 1/2 448 1/2 449 1/2 450 1/2 451 1/2 452 1/2 453 1/2 454 1/2 455 1/2 456 1/2 457 1/2 458 1/2 459 1/2 460 1/2 461 1/2 462 1/2 463 1/2 464 1/2 465 1/2 466 1/2 467 1/2 468 1/2 469 1/2 470 1/2 471 1/2 472 1/2 473 1/2 474 1/2 475 1/2 476 1/2 477 1/2 478 1/2 479 1/2 480 1/2 481 1/2 482 1/2 483 1/2 484 1/2 485 1/2 486 1/2 487 1/2 488 1/2 489 1/2 490 1/2 491 1/2 492 1/2 493 1/2 494 1/2 495 1/2 496 1/2 497 1/2 498 1/2 499 1/2 500 1/2 501 1/2 502 1/2 503 1/2 504 1/2 505 1/2 506 1/2 507 1/2 508 1/2 509 1/2 510 1/2 511 1/2 512 1/2 513 1/2 514 1/2 515 1/2 516 1/2 517 1/2 518 1/2 519 1/2 520 1/2 521 1/2 522 1/2 523 1/2 524 1/2 525 1/2 526 1/2 527 1/2 528 1/2 529 1/2 530 1/2 531 1/2 532 1/2 533 1/2 534 1/2 535 1/2 536 1/2 537 1/2 538 1/2 539 1/2 540 1/2 541 1/2 542 1/2 543 1/2 544 1/2 545 1/2 546 1/2 547 1/2 548 1/2 549 1/2 550 1/2 551 1/2 552 1/2 553 1/2 554 1/2 555 1/2 556 1/2 557 1/2 558 1/2 559 1/2 560 1/2 561 1/2 562 1/2 563 1/2 564 1/2 565 1/2 566 1/2 567 1/2 568 1/2 569 1/2 570 1/2 571 1/2 572 1/2 573 1/2 574 1/2 575 1/2 576 1/2 577 1/2 578 1/2 579 1/2 580 1/2 581 1/2 582 1/2 583 1/2 584 1/2 585 1/2 586 1/2 587 1/2 588 1/2 589 1/2 590 1/2 591 1/2 592 1/2 593 1/2 594 1/2 595 1/2 596 1/2 597 1/2 598 1/2 599 1/2 600 1/2 601 1/2 602 1/2 603 1/2 604 1/2 605 1/2 606 1/2 607 1/2 608 1/2 609 1/2 610 1/2 611 1/2 612 1/2 613 1/2 614 1/2 615 1/2 616 1/2 617 1/2 618 1/2 619 1/2 620 1/2 621 1/2 622 1/2 623 1/2 624 1/2 625 1/2 626 1/2 627 1/2 628 1/2 629 1/2 630 1/2 631 1/2 632 1/2 633 1/2 634 1/2 635 1/2 636 1/2 637 1/2 638 1/2 639 1/2 640 1/2 641 1/2 642 1/2 643 1/2 644 1/2 645 1/2 646 1/2 647 1/2 648 1/2 649 1/2 650 1/2 651 1/2 652 1/2 653 1/2 654 1/2 655 1/2 656 1/2 657 1/2 658 1/2 659 1/2 660 1/2 661 1/2 662 1/2 663 1/2 664 1/2 665 1/2 666 1/2 667 1/2 668 1/2 669 1/2 670 1/2 671 1/2 672 1/2 673 1/2 674 1/2 675 1/2 676 1/2 677 1/2 678 1/2 679 1/2 680 1/2 681 1/2 682 1/2 683 1/2 684 1/2 685 1/2 686 1/2 687 1/2 688 1/2 689 1/2 690 1/2 691 1/2 692 1/2 693 1/2 694 1/2 695 1/2 696 1/2 697 1/2 698 1/2 699 1/2 700 1/2 701 1/2 702 1/2 703 1/2 704 1/2 705 1/2 706 1/2 707 1/2 708 1/2 709 1/2 710 1/2 711 1/2 712 1/2 713 1/2 714 1/2 715 1/2 716 1/2 717 1/2 718 1/2 719 1/2 720 1/2 721 1/2 722 1/2 723 1/2 724 1/2 725 1/2 726 1/2 727 1/2 728 1/2 729 1/2 730 1/2 731 1/2 732 1/2 733 1/2 734 1/2 735 1/2 736 1/2 737 1/2 738 1/2 739 1/2 740 1/2 741 1/2 742 1/2 743 1/2 744 1/2 745 1/2 746 1/2 747 1/2 748 1/2 749 1/2 750 1/2 751 1/2 752 1/2 753 1/2 754 1/2 755 1/2 756 1/2 757 1/2 758 1/2 759 1/2 760 1/2 761 1/2 762 1/2 763 1/2 764 1/2 765 1/2 766 1/2 767 1/2 768 1/2 769 1/2 770 1/2 771 1/2 772 1/2 773 1/2 774 1/2 775 1/2 776 1/2 777 1/2 778 1/2 779 1/2 780 1/2 781 1/2 782 1/2 783 1/2 784 1/2 785 1/2 786 1/2 787 1/2 788 1/2 789 1/2 790 1/2 791 1/2 792 1/2 793 1/2 794 1/2 795 1/2 796 1/2 797 1/2 798 1/2 799 1/2 800 1/2 801 1/2 802 1/2 803 1/2 804 1/2 805 1/2 806 1/2 807 1/2 808 1/2 809 1/2 810 1/2 811 1/2 812 1/2 813 1/2 814 1/2 815 1/2 816 1/2 817 1/2 818 1/2 819 1/2 820 1/2 821 1/2 822 1/2 823 1/2 824 1/2 825 1/2 826 1/2 827 1/2 828 1/2 829 1/2 830 1/2 831 1/2 832 1/2 833 1/2 834 1/2 835 1/2 836 1/2 837 1/2 838 1/2 839 1/2 840 1/2 841 1/2 842 1/2 843 1/2 844 1/2 845 1/2 846 1/2 847 1/2 848 1/2 849 1/2 850 1/2 851 1/2 852 1/2 853 1/2 854 1/2 855 1/2 856 1/2 857 1/2 858 1/2 859 1/2 860 1/2 861 1/2 862 1/2 863 1/2 864 1/2 865 1/2 866 1/2 867 1/2 868 1/2 869 1/2 870 1/2 871 1/2 872 1/2 873 1/2 874 1/2 875 1/2 876 1/2 877 1/2 878 1/2 879 1/2 880 1/2 881 1/2 882 1/2 883 1/2 884 1/2 885 1/2 886 1/2 887 1/2 888 1/2 889 1/2 890 1/2 891 1/2 892 1/2 893 1/2 894 1/2 895 1/2 896 1/2 897 1/2 898 1/2 899 1/2 900 1/2 901 1/2 902 1/2 903 1/2 904 1/2 905 1/2 906 1/2 907 1/2 908 1/2 909 1/2 910 1/2 911 1/2 912 1/2 913 1/2 914 1/2 915 1/2 916 1/2 917 1/2 918 1/2 919 1/2 920 1/2 921 1/2 922 1/2 923 1/2 924 1/2 925 1/2 926 1/2 927 1/2 928 1/2 929 1/2 930 1/2 931 1/2 932 1/2 933 1/2 934 1/2 935 1/2 936 1/2 937 1/2 938 1/2 939 1/2 940 1/2 941 1/2 942 1/2 943 1/2 944 1/2 945 1/2 946 1/2 947 1/2 948 1/2 949 1/2 950 1/2 951 1/2 952 1/2 953 1/2 954 1/2 955 1/2 956 1/2 957 1/2 958 1/2 959 1/2 960 1/2 961 1/2 962 1/2 963 1/2 964 1/2 965 1/2 966 1/2 967 1/2 968 1/2 969 1/2 970 1/2 971 1/2 972 1/2 973 1/2 974 1/2 975 1/2 976 1/2 977 1/2 978 1/2 979 1/2 980 1/2 981 1/2 982 1/2 983 1/2 984 1/2 985 1/2 986 1/2 987 1/2 988 1/2 989 1/2 990 1/2 991 1/2 992 1/2 993 1/2 994 1/2 995 1/2 996 1/2 997 1/2 998 1/2 999 1/2 1000 1/2

Is an installation fitted for burning oil fuel

Is the flash point of the oil to be used over 150°F.

Have the requirements of Section 49 of the Rules been complied with

Is this machinery duplicate of a previous case

If so, state name of vessel S S Tormid "Knap" 83 82

General Remarks (State quality of workmanship, opinions as to class, &c.)

This vessel's machinery has been made in accordance with the approved plans. Material duly tested. Workmanship throughout good. Engine tried under full working condition and working without heating whatever.

I am of opinion that this vessel's machinery is eligible to be recorded in the Register book LMC 3.22, subject to 1 P cylinders being ex'd before the end of March 1923 (final ex. Knap up. 86.95.)

The amount of Entry Fee ... £ 36 --
Special ... £ 315 --
Donkey Boiler Fee ... £ 392.25 --
Travelling Expenses (if any) £ : :
When applied for, 19...
When received, 29/3/22

Committee's Minute

Assigned

noted

Burgdorff

Engineer Surveyor to Lloyd's Register of Shipping.

TUE AUG. 28 1922

FRI MAR 31 1922

+ LMC 3.22

noted



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