

REPORT ON OIL ENGINE ELECTRIC GENERATOR SETS.

No. 12187

22 JAN 1931

Received at London Office

Date of writing Report 10 January 1931 When handed in at Local Office

19 Port of

AMSTERDAM

Place in Survey held at AMSTERDAM

Date, First Survey 11 June

Last Survey 17 October 1930

Log Book.

Number of Visits 9.

Type of vessel on the Twin Screw vessel

"APOLLONIA"

Tons { Gross -
Net -

Built at Rotterdam

By whom built N.V. Werf v/h. Ryke & Co. Yard No. 202 When built 1931

Owners Anglo Saxon Petroleum Co.

Port belonging to London

Oil Engines made at Amsterdam

By whom made N.V. Kromhout Motoren

Fabriek type 2-HS-4

No. 5730, When made 1930

Generators made at -

By whom made -

Contract No. - When made -

No. of Sets 1 Engine Brake Horse Power 90/100 Nom. Horse Power as per Rule 27 Total Capacity of Generators - Kilowatts.

L ENGINES, &c. Type of Engines Kromhout Oil Engines 2 or 4 stroke cycle 2 Single or double acting Single

Maximum pressure in cylinders 35 1/2 lb/cm² Diameter of cylinders 265 mm Length of stroke 350 mm No. of cylinders 2 No. of cranks 2

Span of bearings, adjacent to the Crank, measured from inner edge to inner edge 394 mm Is there a bearing between each crank Yes

Revolutions per minute 320 mm Flywheel dia. 1300 mm Weight 1450 kg Means of ignition Compound air Kind of fuel used Diesel oil

Crank Shaft, dia. of journals as per Rule 135 mm as fitted 135 mm Crank pin dia. 135 mm Crank Webs Mid. length breadth 180 mm Mid. length thickness 46 mm Thickness parallel to axis shrunk Thickness around eyehole Solid

Flywheel Shaft, diameter as per Rule 2 as fitted 2 Intermediate Shafts, diameter as per Rule 2 as fitted 2 Thickness of cylinder liners 2

Is a governor or other arrangement fitted to prevent racing of the engine when declutched Yes Means of lubrication Grease lubricator

Are the cylinders fitted with safety valves Yes Are the exhaust pipes and silencers water cooled or lagged with non-conducting material Yes

Cooling Water Pumps, No. 2 Is the sea suction provided with an efficient strainer which can be cleared within the vessel

Lubricating Oil Pumps, No. and size 1.4 feeds and one for bearings and crankpins

Air Compressors, No. 2 No. of stages 2 Diameters 2 Stroke 2 Driven by 2

Scavenging Air Pumps, No. 2 Diameter 2 Stroke 2 Driven by 2

AIR RECEIVERS:—Is each receiver, which can be isolated, fitted with a safety valve as per Rule 2

Can the internal surfaces of the receivers be examined 2 What means are provided for cleaning their inner surfaces 2

Is there a drain arrangement fitted at the lowest part of each receiver 2

High Pressure Air Receivers, No. 2 Cubic capacity of each 2 Internal diameter 2 thickness 2

Seamless, lap welded or riveted longitudinal joint 2 Material 2 Range of tensile strength 2 Working pressure by Rules 2

Starting Air Receivers, No. 2 Total cubic capacity 2 Internal diameter 2 thickness 2

Seamless, lap welded or riveted longitudinal joint 2 Material 2 Range of tensile strength 2 Working pressure by Rules 2

ELECTRIC GENERATORS:—Type Driving Pearson Air Compressor and

Pressure of supply 2 volts. Load 2 Amperes. Direct or Alternating Current 2

If alternating current system, state frequency of periods per second 2

Has the Automatic Governor been tested and found efficient when the whole load is suddenly thrown on or off 2

Generators, do they comply with the requirements regarding rating 2 are they compound wound 2

Are they over compounded 5 per cent. 2, if not compound wound state distance between each generator 2

Is an adjustable regulating resistance fitted in series with each shunt field 2 Are all terminals accessible, clearly marked, and furnished with sockets 2

Are they so spaced or shielded that they cannot be accidentally earthed, short circuited, or touched 2 Are the lubricating arrangements of the generators as per Rule 2

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

SEPARATE GEAR

Set of fuel pump, pump for fuel pump; valves and cam for fuel pump; 1 set of valves for air casing, 4 fuel jets; 2 governor springs; 2 springs for starting air valves; 6 packing rings; 1 set of valves for circulating pump; 1 piston with rings; 2 4 piston rings; 2 bottom end bearings, both; 1 guide pin; 1 steel slab for dam; 1 cylinder head with valves complete; 1 fuel pump.

The foregoing is a correct description,
N.V. KROMHOUT MOTOREN FABRIEK

D. Goedkoop Jr.

Manufacturer.



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Lloyd's Register
Foundation

W329-0029

Dates of Survey while building { During progress of work in shops - - 11/6. 2/4. 6/8. 15/9. 23/9. 31/10. 4/11. 16/11. 17/12.
 { During erection on board vessel - - - - -
 Total No. of visits 9.

Dates of Examination of principal parts—Cylinders 2/4 - 31/10 Covers 2/4 - 31/10 Pistons 2/4 - 31/10 Piston rods
 Connecting rods 11/6 - 15/9 Crank and Flywheel shaft 11/6 - 15/9 Intermediate shaft

Crank and Flywheel shafts, Material Steel Identification Mark Lloyd's P. R. No. 450. 13. 9517
 Intermediate shafts, Material Identification Marks

Is this machinery duplicate of a previous case Yes If so, state name of vessel Andover: 12084 P. 5830.

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

The engines have been constructed in accordance with the Rules, Secretary's letters and approved plans.

All material tested as required and workmanship good.

The engines have been tested on bench under full working condition and good.

The engines will be forwarded to Messrs. Ryke & Co. of Glasgow: 212 Rottenrow

The amount of Fee ... £ 200.- : When applied for, 19...
 Travelling Expenses (if any) £ 6.- : When received, 16.1.1931

H. W. Beaman
 Surveyor to Lloyd's Register of Shipping.

Committee's Minute

TUE. 18 AUG 1931

Assigned See F. E. Rpt.



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