

REPORT ON OIL ENGINE MACHINERY.

No. 10513

Received at London Office 19 FEB 1927

Date of writing Report 17 Febr. 1927 When handed in at Local Office 19 Port of AMSTERDAM

Survey held at AMSTERDAM Date, First Survey 9 March, 1925 Last Survey 16 April 1926. Number of Visits 24

on the ^{Single}~~Double~~~~Triple~~ Screw vessel Rotterdam Dry dock & Shipb. Co's Yard No. 98 Tons ^{Gross} - _{Net} -

built at Rotterdam By whom built Rotterdam D.D. & S.B. Co. Yard No. 98 When built 1926.

Engines made at Amsterdam By whom made Werkspoor Engine No. When made 1926

Boilers made at - By whom made - Boiler No. - When made -

Indicated Horse Power 150 Owners Anglo-Saxon Petroleum Co. Port belonging to London.

Net Horse Power as per Rule 43 Is Refrigerating Machinery fitted for cargo purposes - Is Electric Light fitted -

Trade for which vessel is intended -

ENGINES, &c.—Type of Engines One Auxiliary Diesel Engine 2 or 4 stroke cycle Single or double acting

Minimum pressure in cylinders 30 1/2 Diameter of cylinders 320 mm Length of stroke 450 mm No. of cylinders 3 No. of cranks 3

Distance of bearings, adjacent to the Crank, measured from inner edge to inner edge 430 mm Is there a bearing between each crank Yes

Revolutions per minute 250 mm Flywheel dia. 1600 mm Weight 3140 kg Means of ignition Self-ignition Kind of fuel used Diesel oil

Crank Shaft, dia. of journals as per Rule 185 mm as fitted 185 mm Crank pin dia. 185 mm Crank Webs Mid. length breadth 290 mm shrunk Thickness parallel to axis 100 mm Mid. length thickness 100 mm Thickness around eye-hole Solid

Intermediate Shafts, diameter as per Rule - as fitted - Thrust Shaft, diameter at collars as per Rule - as fitted -

Propeller Shaft, diameter as per Rule - as fitted - Screw Shaft, diameter as per Rule - as fitted - Is the tube shaft fitted with a continuous liner -

3/19 Liners, thickness in way of bushes as per Rule - as fitted - Thickness between bushes as per rule - as fitted - Is the after end of the liner made watertight in the

After boss - If the liner is in more than one length are the junctions made by fusion through the whole thickness of the liner -

When 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 -

When no liners are fitted, is the shaft lapped or protected between the liners - Is an approved Oil Gland or other appliance fitted at the after

End of the tube shaft - Length of Bearing in Stern Bush next to and supporting propeller -

Propeller, dia. - Pitch - No. of blades - Material - whether Moveable - Total Developed Surface - sq. feet

Method of reversing Engines - Is a governor or other arrangement fitted to prevent racing of the engine when declutched - Means of lubrication

Need Thickness of cylinder liners - Are the cylinders fitted with safety valves - Are the exhaust pipes and silencers water cooled or lagged with

Insulating material - If the exhaust is led overboard near the waterline, what means are arranged to prevent water from being syphoned back to the engine -

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

Water Pumps worked from the Main Engines, No. - Diameter - Stroke - Can one be overhauled while the other is at work -

9. 10 Pumps connected to the Main Bilge Line { No. and Size - How driven -

1. 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.

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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. 14

IS A DONKEY BOILER FITTED?

If so, is a report now forwarded?

PLANS. Are approved plans forwarded herewith for Shafting Palmer Receivers in Separate Tanks London
(If not, state date of approval) Secretary's letter 24/12/24.

Donkey Boilers General Pumping Arrangements Oil Fuel Burning Arrangements

SPARE GEAR

Please see list attached.

With Plans.

The foregoing is a correct description,

Manufacturer.

| | | | | | | | | | | | | | | |
|--------------------------------|------------------------------------|-------|-------|--------|-------|------|-------|-------|-------|-------|-------|-------|------|------|
| Dates of Survey while building | During progress of work in shops-- | 9/3. | 12/3. | 18/3. | 24/3. | 5/5. | 4/5. | 12/5. | 31/5. | 4/6. | 24/6. | 22/6. | 3/7. | 3/7. |
| | During erection on board vessel-- | 2/10. | 5/11. | 19/11. | 25. | 6/1. | 20/1. | 2/2. | 25/2. | 10/3. | 1/4. | 16/4. | 2/4. | |
| | Total No. of visits | 24. | | | | | | | | | | | | |

Dates of Examination of principal parts—Cylinders 9/3 - 3/6 Covers Pistons 5/5 - 4/6 Rods Connecting rods 9/5 -

Crank shaft 7/5 - 3/9 Flywheel shaft Thrust shaft Intermediate shafts Tube shaft

Screw shaft Propeller Stern tube Engine seatings Engines holding down bolts

Completion of fitting sea connections Completion of pumping arrangements Engines tried under working conditions

Crank shaft, Material Steel Identification Mark OT-244. F.H.H. Flywheel shaft, Material Identification Mark

Thrust shaft, Material Identification Mark Intermediate shafts, Material Identification Marks

Tube shaft, Material Identification Mark Screw shaft, Material Identification Mark

Is the flash point of the oil to be used over 150° F. Yes. *Ref. Dry Dock Co. Nos 98, 99, 100. Mtd. Schuyler Bros my com. 181, 2, 184. H. Leslie Nos 3636-3637. Teyams Nos 302-303. Palmer Nos 2615-2616. Another from Reports 10408, 10409.*

Is this machinery duplicate of a previous case Yes. If so, state name of vessel Teyams

General Remarks (State quality of workmanship, opinions as to class, &c.)
The engines have been built under special survey in accordance with the Rules and Secretary's letter, workmanship good, material tested as required. Engines tried under full working conditions on test bench. and good.

Certificate (if required) to be sent to
(The Surveyors are requested not to write on or below the space for Committee's Minute.)

| | | | |
|--------------------------------|---|---|-------------------|
| The amount of Entry Fee ... £ | : | : | When applied for, |
| Special ... £ | : | : | 19. |
| Donkey Boiler Fee ... £ | : | : | When received, |
| Travelling Expenses (if any) £ | : | : | 3 May 1924. |

A. V. Bennett.
Engineer Surveyor to Lloyd's Register of Shipping

Committee's Minute

Assigned

