

No. 86378.

worked from	✓	If a wood vessel, what means are provided to prevent leakage of either fuel oil or lubricating oil?	
No. of main air compressors	4, 1 on each engine	No. of stages	3.
		Diameters	14", 12½", 27½"
		Stroke	13½"
		Driven by	Main Engine
No. of auxiliary air compressors	none	No. of stages	✓
		Diameters	✓
		Stroke	✓
		Driven by	✓
No. of small auxiliary air compressors	one	No. of stages	2
		Diameters	5", 1½"
		Stroke	4"
		Driven by	Electric motor
No. of scavenging air pumps	16, 4 on each engine	Diameter	34" x 14½" rectangular
		Stroke	14"
		Driven by	Main Engine
Diameter of auxiliary Diesel Engine crank shafts	as per Rule	Are the air compressors and their coolers made so as to be easy of access	yes.
	as fitted		

IR RECEIVERS:—No of high pressure air receivers A Internal diameter 9 3/8" Cubic capacity of each 3.25 cu ft.

Material Open Heath M.S. Seamless, lap welded or riveted longitudinal joint Seamless. Range of tensile strength 28-32 tons

Thickness 7/16 working pressure by Rules 12.0 lbs. No. of starting air receivers A Internal diameter 17 5/8"

Total cubic capacity 73 cu feet Material Open Heath M.S. Seamless, lap welded or riveted longitudinal joint Seamless.

Range of tensile strength 28-32 tons thickness 1/16 Working pressure by rules 1100 lbs Is each receiver, which can be isolated

fitted with a safety valve as per Rule Yes Can the internal surfaces of the receivers be examined Yes What means are provided for cleaning them

inner surfaces Blast receivers have 3 1/4" hole at each end. Is there a drain arrangement fitted at the lowest part of each receiver Yes.

Starting " " 8 3/4" hole at bottom & 4 1/2" dia hole at top.

Yes.

If so, is a report now forwarded?

Yes

Lee Arch report 5181.

also

ULT
nu fac

Receivers

Separate Tanks

SEE ATTACHED LISTS.

WILLIAMS & COMPANY LIMITED

J. W. Laird

Manufacturer.

Dates of Survey while building		During progress of work in shops--	During erection on board vessel--	Total No. of visits	
1877.		Oct. 3. 6. 11. 12. 13. 17. 19. 20. 23. 24. 26. 31. Nov. 1. 3. 6. 8. 9. 13. 14. 17. 20. 21. 22. 24. 27. 28. 29. 4. 5. 11. 13. 14. 18. 19. 20. 21. 28. 29.	16. 18. 19. 22. 23. 25. 29. 30. 31. Dec. 1. 5. 8. 14. 15. 16. 17. 19. 22. 28. 28. Jan. 1. 2. 7. 12. 14. 16. 20. 26. 28. 29. Apr. 3. 9. 11. 17. 19. 26. 27. 30. May 1. 2. 4. 4. 25. 16. 14.	23. 26. 28. 29. June 1. 4. 6. 12. 13. 14. 15. 19. 20. 22. 28. 27. 28. 29. July. 2. 4. 5. 6. 11. 13. 16. 17. 18. 20. 21. 23. 26. 25. 26. 27. 30. Aug. 2. 9. 11. 13. 16. 17. 18. 20. 21. 23. 26. 27. 30. Sep. 2. 5. 7. 9. 12. 14. 15. 16. 17. 18. 19. 20. 23. 26. 27. Dec. 2. 5. 7. 9. 12. 14. 15. 16. 17. 18. 19. 20. 23. 26. 27.	193.

Dates of Examination of principal parts—Cylinders 31/10/22 18/1/24 Covers ✓ Pistons 8/11/22 18/1/24 *HEADS 13/11/22 4/7/23
 Crank shaft 4/12/23 Thrust shaft 11/2/22 11/4/23 Tunnel shafts 11/2/22 11/4/23 Screw shaft 6/8/22 11/4/23 Propeller 11/4/23 23/24 Stern tube 28/11/22 11/4/23 Engine seatings 1/6/23
 Connecting rods 31/1/23 4/7/23

Engines holding down bolts	9/8/23.	Completion of pumping arrangements	10/9/23.	Engines tried under working conditions	15/11/23.	Thickness	17/11/23.
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Completion of fitting sea connections 17/4/23. Stern tube 12/4/23. Screen shaft and ... 17/4/23.

Material of crank shaft	Steel	Identification Mark on Do.	644, 645, 647, 648 CRH	Material of thrust shaft	Steel	Identification Mark on Do.	117/15	Length of
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Material of terminal shell	Shape of terminal shell	Character of dorsal snail	Identification Mark on Do.	Dimension
Skid	(COT-IP-1)	85.4	116.1 Hg. 311	

Material of tunnel shafts	Steel	Identification Marks on Do.	6263 JP 2919
Material of screw shafts	Steel	Identification Marks on Do.	6263 JP 2919

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

Is this machinery duplicate of a previous case No If so, state name of vessel ✓

General Remarks (State quality of workmanship, opinions as to class, &c. The Machinery of this vessel has been

constructed under special survey and in accordance with the approved plan an pitch

envelope letters (E) 21-8-22, 23-8-22, 14-12-23, 8-6-23 & 21-8-23

... of good quality and on completion the machinery was tried under full working conditions.

at sea and found satisfactory in every respect. The machinery is climb in our opinion each.

is recorded in the Register Book with Citation + L.M.C 1-24. NOTE on Substitution of the bird's nest

as trials lasting several days. The water packets of all cylinders were found fractured. The whole of the cylinders have now

revised with a slight alteration in the design and made of special muntz metal not less than 12 to 15 mils. after a further

the whole of the cylinders and jackets were opened out, examined and

and all found satisfactory and report condition.

The amount of Entry Fee ... £ 3 : 0 : 0 When applied for, 1781

Special £ 91 : 12 : 0 24 JAN 1924 John D. Kes & W. Leicester, Working P

Donkey Boiler Fee ... £ : : 1524

When received.

Engineer Surveyor to Lloyd's Register of Shipping.

meter⁴

Travelling Expenses (if any) £ : : 24

SUNDAY ATTENDANCES 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

Committee's Minute

LIVERPOOL 23 JAN 1924
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assigned. L M C 1:24

Oil Engines. L
Boilers, L. 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.

...used for oil, fuel 1 1/4. Fr above 150 F.
E. of ...

