

REPORT ON STEAM RECIPROCATING ENGINE MACHINERY.

Received at London Office

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Date of writing Report 25th Sept 1936 When handed in at Local Office 19 Port of BREMEN
 No. in Survey held at BREMEN Date, First Survey 17th Oct. 1935 Last Survey 7th Sept. 1936
 Reg. Book. 85086 on the STEELTWIN SC. TERJE VIKEN (Number of Visits 148) Gross 20638
 Built at BREMEN By whom built DEUTSCHE SCHIFF- UND MASCHINENBAU A.G. WERK: A.G. WESER Yard No. 914 When built 1936
 Engines made at BREMEN By whom made DESCHIMAB, A.G. WESER Engine No. 2095/96 When made 1936
 Boilers made at BREMEN By whom made DESCHIMAB, A.G. WESER Boiler No. 1689-1694 When made 1936
 Registered Horse Power 1248 Owners UNITED WHALERS LTD. Port belonging to LONDON
 Nom. Horse Power as per Rule 1248 Is Refrigerating Machinery fitted for cargo purposes no Is Electric Light fitted yes
 Trade for which Vessel is intended WHALING SERVICE

ENGINES, &c.—Description of Engines 2 TRIPLE EXPANSION STEAM ENG. WITH L.P. TURBINE D.R. 6. Revs. per minute 103
 Dia. of Cylinders 560 x 920 x 1480 Length of Stroke 1000 No. of Cylinders 2 x 3 No. of Cranks 2 x 3
 Crank shaft, dia. of journals as per Rule 320 Crank pin dia. 350 Crank webs Mid. length breadth Thickness parallel to axis 210
as fitted 345 Mid. length thickness Thickness around eye-hole 155
 Intermediate Shafts, diameter as per Rule 305 Thrust shaft, diameter at collars as per Rule 320
as fitted 347 as fitted 322
 Tube Shafts, diameter as per Rule Screw Shaft, diameter as per Rule 337 Is the { tube } shaft fitted with a continuous liner { yes
as fitted as fitted 350 { screw }
 Bronze Liners, thickness in way of bushes as per Rule 18 Thickness between bushes as per Rule 13.5 Is the after end of the liner made watertight in the
as fitted 23 as fitted 18 propeller boss yes If the liner is in more than one length are the junctions made by fusion through the whole thickness of the liner one length
 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 yes
 If two liners are fitted, is the shaft lapped or protected between the liners no Is an approved Oil Gland or other appliance fitted at the after end of the tube
 shaft no If so, state type yes Length of Bearing in Stern Bush next to and supporting propeller 1830
 Propeller, dia. 4650 Pitch 4250 No. of Blades 4 Material W. Steel whether Moveable no Total Developed Surface 6.93 sq. feet
 Feed Pumps worked from the Main Engines, No. 2 Diameter 250 Stroke 10 Can one be overhauled while the other is at work yes
 Bilge Pumps worked from the Main Engines, No. 2 Diameter 250 Stroke 10 Can one be overhauled while the other is at work yes
 Feed Pumps { No. and size 3. 50 k/h 750 1. 10 k/h 250 x 190 Pumps connected to the { No. and size One 305 x 325 400 130 k/h One 280 x 360 675 250 k/h
 { How driven Steam vert. simpl. for turbines { How driven Steam vert. simpl.
 Ballast Pumps, No. and size One 280 x 360 675 250 k/h Lubricating Oil Pumps, including Spare Pump, No. and size 3 190 x 190 40 k/h
 Are two independent means arranged for circulating water through the Oil Cooler yes Suctions, connected to both Main Bilge Pumps and Auxiliary
 Bilge Pumps;—In Engine and Boiler Room In Eng Room 5 of 90 Z F. the elevated boiler room drains by 2 sumps of 50 Z F to engine room
 In Pump Room From Pump R. 1 of 125 Z, midship and in Hold, each Pump Room each 2 of 100 Z
Each from cargo holds 2 of 125 Z F
 Main Water Circulating Pump Direct Bilge Suctions, No. and size 2 of 250 Z F Independent Power Pump Direct Suctions to the Engine Room Bilges,
 No. and size One of 150 Z F Are all the Bilge Suction Pipes in holds and tunnel well fitted with strum-boxes yes
 Are the Bilge Suctions in the Machinery Space led from easily accessible mud-boxes, placed above the level of the working floor, with straight tail pipes to the bilges yes
 Are all Sea Connections fitted direct on the skin of the ship yes, steel drums Are they fitted with 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 Overboard Discharges above or below the deep water line below
 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 pass through the bunkers none How are they protected no
 What pipes pass through the deep tanks none Have they been tested as per Rule no
 Are all Pipes, Cocks, Valves, and Pumps in connection with the machinery and all boiler mountings accessible at all times yes
 Is the arrangement of Valves and their connections such as to prevent the possibility of water passing from the sea or from water tanks into the cargo or machinery spaces, or from one
 compartment to another yes Is the Shaft Tunnel watertight no tunnel Is it fitted with a watertight door yes worked from no

MAIN BOILERS, &c.—(Letter for record 5) Total Heating Surface of Boilers 18000 sq. ft. 1674 m²
 Is Forced Draft fitted yes No. and Description of Boilers 6 multib. main boilers Working Pressure 250 lbs
 IS A REPORT ON MAIN BOILERS NOW FORWARDED? yes
 IS A DONKEY BOILER FITTED? no If so, is a report now forwarded? no
 Is the donkey boiler intended to be used for domestic purposes only no
PLANS. Are approved plans forwarded herewith for Shafting yes Main Boilers yes Auxiliary Boilers no Donkey Boilers no
 (If not, state date of approval)
 Superheaters yes General Pumping Arrangements yes Oil fuel Burning Piping Arrangements yes

SPARE GEAR.

Has the spare gear required by the Rules been supplied yes

State the principal additional spare gear supplied

For Main Engines:
2 1/2 bottom end & 1/2 top end bearings
1 LP piston rod, 1 guide shoe
1 LP slide valve spindle, 1 eccentric rod
1 complete eccentric strap
1 propeller shaft
2 propellers
100 condenser tubes & joints

For Boilers:

21 plain & 24 key tubes
2 safety valve springs
1 " " " " " "
6 check valves

For each size of main pumps:

1 impeller wheel with shaft
 For each Dynamometer Engine:
1 HP & LP piston 1 piston rod
2 1/2 bottom end & 1/2 top end bearings

For each of the principal pumps:

1 set of steam piston rings
1 " " pump " "
1 " " suction valves
1 " " delivery valves

The foregoing is a correct description,

Deutsche Schiff- und Maschinenbau Aktiengesellschaft
 Werk: Act. Ges. "Weser"
 Manufacturer.

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Lloyd's Register
Foundation

1410-16M

1935 July 17, 19, 25, 26, 4, 23, 29. 1936 Jan. 6, 11, 16, 22, 25, 27, 30. Feb. 2, 6, 8, 10, 13, 15, 20, 26, 29, 11, 13, 15, 18, 25, 27, 29.
 March 2, 5, 9, 11, 13, 18, 19, 23, 25, 28, 30. April 2, 4, 7, 9, 21, 23, 24, 27, 28, 29, 30.
 May 2, 11, 12, 13, 14, 18, 20, 23, 25, 26, 27, 29, 4, 5, 6, 7, 8, 13, 15, 18, 19, 22, 25, 27, 28.
 June 7, 4, 5, 8, 10, 12, 15, 17, 19, 20, 23, 29. July 2, 4, 6, 8, 9, 10, 13, 14, 15, 16, 17, 20, 21, 28.
 August 2, 3, 5, 10, 11, 13, 17, 18, 20, 22, 24, 25, 27, 29. July 1, 2, 4, 6, 8, 9, 13, 22, 24, 25, 27, 28, 29, 30.
 During erection on board vessel - - - Aug. 1, 3, 6, 8, 10, 12, 13, 15, 18, 20, 24, 26, 28, 29, 31. Sept. 8, 7.
 Total No. of visits 148

Dates of Examination of principal parts—Cylinders 27, 4, 29, 4, 13, 5, 36 Slides 30, 4, 36 18, 5, 36 Covers 27, 4, 29, 4, 13, 5, 36
 Pistons 20, 6, 36 Piston Rods 20, 6, 36 Connecting rods 23, 4, 36
 Crank shafts 2, 4, 36 Thrust shafts 13, 5, 36 22, 5, 36 Intermediate shafts 14, 5, 36
 Tube shaft 25, 5, 36 Screw shafts 25, 5, 36 Propeller 25, 5, 36
 Stern tube 23, 3, 36, 25, 3, 36 Engine and boiler seatings 25, 5, 36 Engines holding down bolts 1, 7, 36.
 Completion of fitting sea connections 29, 5, 36 7, 6, 36
 Completion of pumping arrangements 26, 8, 36, 31, 8, 36 Boilers fixed 10, 8, 36 Engines tried under steam 31, 8, 36, 2, 9, 36
 Main boiler safety valves adjusted 18, 8, 36, 20, 8, 36 Thickness of adjusting washers please see boiler report
 Crank shafts material P.M. Steel Identification Mark 21, 1, 36, 24, 1, 36 Thrust shafts material P.M. Steel Identification Mark 21, 9, 35, 23, 5, 36
 Intermediate shafts, material P.M. Steel Identification Marks 21, 1, 36, 24, 1, 36, 25, 1, 36, 27, 1, 36, 29, 1, 36, 31, 1, 36, 33, 1, 36, 35, 1, 36, 37, 1, 36, 39, 1, 36, 41, 1, 36, 43, 1, 36, 45, 1, 36, 47, 1, 36, 49, 1, 36, 51, 1, 36, 53, 1, 36, 55, 1, 36, 57, 1, 36, 59, 1, 36, 61, 1, 36, 63, 1, 36, 65, 1, 36, 67, 1, 36, 69, 1, 36, 71, 1, 36, 73, 1, 36, 75, 1, 36, 77, 1, 36, 79, 1, 36, 81, 1, 36, 83, 1, 36, 85, 1, 36, 87, 1, 36, 89, 1, 36, 91, 1, 36, 93, 1, 36, 95, 1, 36, 97, 1, 36, 99, 1, 36, 101, 1, 36, 103, 1, 36, 105, 1, 36, 107, 1, 36, 109, 1, 36, 111, 1, 36, 113, 1, 36, 115, 1, 36, 117, 1, 36, 119, 1, 36, 121, 1, 36, 123, 1, 36, 125, 1, 36, 127, 1, 36, 129, 1, 36, 131, 1, 36, 133, 1, 36, 135, 1, 36, 137, 1, 36, 139, 1, 36, 141, 1, 36, 143, 1, 36, 145, 1, 36, 147, 1, 36, 149, 1, 36, 151, 1, 36, 153, 1, 36, 155, 1, 36, 157, 1, 36, 159, 1, 36, 161, 1, 36, 163, 1, 36, 165, 1, 36, 167, 1, 36, 169, 1, 36, 171, 1, 36, 173, 1, 36, 175, 1, 36, 177, 1, 36, 179, 1, 36, 181, 1, 36, 183, 1, 36, 185, 1, 36, 187, 1, 36, 189, 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523, 1, 36, 525, 1, 36, 527, 1, 36, 529, 1, 36, 531, 1, 36, 533, 1, 36, 535, 1, 36, 537, 1, 36, 539, 1, 36, 541, 1, 36, 543, 1, 36, 545, 1, 36, 547, 1, 36, 549, 1, 36, 551, 1, 36, 553, 1, 36, 555, 1, 36, 557, 1, 36, 559, 1, 36, 561, 1, 36, 563, 1, 36, 565, 1, 36, 567, 1, 36, 569, 1, 36, 571, 1, 36, 573, 1, 36, 575, 1, 36, 577, 1, 36, 579, 1, 36, 581, 1, 36, 583, 1, 36, 585, 1, 36, 587, 1, 36, 589, 1, 36, 591, 1, 36, 593, 1, 36, 595, 1, 36, 597, 1, 36, 599, 1, 36, 601, 1, 36, 603, 1, 36, 605, 1, 36, 607, 1, 36, 609, 1, 36, 611, 1, 36, 613, 1, 36, 615, 1, 36, 617, 1, 36, 619, 1, 36, 621, 1, 36, 623, 1, 36, 625, 1, 36, 627, 1, 36, 629, 1, 36, 631, 1, 36, 633, 1, 36, 635, 1, 36, 637, 1, 36, 639, 1, 36, 641, 1, 36, 643, 1, 36, 645, 1, 36, 647, 1, 36, 649, 1, 36, 651, 1, 36, 653, 1, 36, 655, 1, 36, 657, 1, 36, 659, 1, 36, 661, 1, 36, 663, 1, 36, 665, 1, 36, 667, 1, 36, 669, 1, 36, 671, 1, 36, 673, 1, 36, 675, 1, 36, 677, 1, 36, 679, 1, 36, 681, 1, 36, 683, 1, 36, 685, 1, 36, 687, 1, 36, 689, 1, 36, 691, 1, 36, 693, 1, 36, 695, 1, 36, 697, 1, 36, 699, 1, 36, 701, 1, 36, 703, 1, 36, 705, 1, 36, 707, 1, 36, 709, 1, 36, 711, 1, 36, 713, 1, 36, 715, 1, 36, 717, 1, 36, 719, 1, 36, 721, 1, 36, 723, 1, 36, 725, 1, 36, 727, 1, 36, 729, 1, 36, 731, 1, 36, 733, 1, 36, 735, 1, 36, 737, 1, 36, 739, 1, 36, 741, 1, 36, 743, 1, 36, 745, 1, 36, 747, 1, 36, 749, 1, 36, 751, 1, 36, 753, 1, 36, 755, 1, 36, 757, 1, 36, 759, 1, 36, 761, 1, 36, 763, 1, 36, 765, 1, 36, 767, 1, 36, 769, 1, 36, 771, 1, 36, 773, 1, 36, 775, 1, 36, 777, 1, 36, 779, 1, 36, 781, 1, 36, 783, 1, 36, 785, 1, 36, 787, 1, 36, 789, 1, 36, 791, 1, 36, 793, 1, 36, 795, 1, 36, 797, 1, 36, 799, 1, 36, 801, 1, 36, 803, 1, 36, 805, 1, 36, 807, 1, 36, 809, 1, 36, 811, 1, 36, 813, 1, 36, 815, 1, 36, 817, 1, 36, 819, 1, 36, 821, 1, 36, 823, 1, 36, 825, 1, 36, 827, 1, 36, 829, 1, 36, 831, 1, 36, 833, 1, 36, 835, 1, 36, 837, 1, 36, 839, 1, 36, 841, 1, 36, 843, 1, 36, 845, 1, 36, 847, 1, 36, 849, 1, 36, 851, 1, 36, 853, 1, 36, 855, 1, 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