

REPORT ON OIL ENGINE MACHINERY.

No. 12267

20 MAY 1931

ing Report 13th May 1931 When handed in at Local Office

Received at London Office

Port of AMSTERDAM

Survey held at AMSTERDAM

Date, First Survey 7th October '30 Last Survey 14th April 1931.

Number of Visits 36

on the Twin ~~Triple~~ Screw vessel "COWRIE"

Monfalcone

By whom built Cantieri Navale Triestino

Yard No. 242

When built 1931

made at Amsterdam

By whom made N.V. Werkspoor

Engine No.

When made 1931

Boilers made at -

By whom made -

Boiler No. -

When made -

orse Power 2 X 2000

Owners Anglo Saxon Petroleum Co. Ltd.

Port belonging to

London

orse Power as per Rule 733714

Is Refrigerating Machinery fitted for cargo purposes -

Is Electric Light fitted -

r which vessel is intended -

Tons { Gross 11500
Net -

GINES, &c.—Type of Engines Weichmann (Synchronizing) 2 or 4 stroke cycle Single or double acting

pressure in cylinders 540 lb. Diameter of cylinders 630 in. Length of stroke 1100 in. No. of cylinders 6 No. of cranks 6

ings, adjacent to the Crank, measured from inner edge to inner edge 840 in. Is there a bearing between each crank in

s per minute 130 Flywheel dia. 2260 in. Weight 6600 lb. Means of ignition Self igniters Kind of fuel used Diesel oil

shaft, dia. of journals as per Rule 410 in. Crank pin dia. 410 in. Crank Webs Mid. length breadth 440 in. Thickness parallel to axis 140 in.

as fitted 410 in. M. d. length thickness 240-245 in. shrunk Thickness around eyehole 149 in.

Shaft, diameter as per Rule 300-410 in. Intermediate Shafts, diameter as per Rule 350 in. Thrust Shaft, diameter at collars as per Rule 300 in.

as fitted 300-410 in. as fitted 325 in. Is the tube screw shaft fitted with a continuous liner in

shaft, diameter as per Rule 4 in. as fitted 4 in. as per Rule 18 in. 19 in. Thickness between bushes as per rule 15 in.

liners, thickness in way of bushes as per Rule 18 in. 19 in. Is the after end of the liner made watertight in the

20, 21, 23, 208 If the liner is in more than one length are the junctions made by fusion through the whole thickness of the liner one length

r 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 tight fit

ers are fitted, is the shaft lapped or protected between the liners 4 Is an approved Oil Gland or other appliance fitted at the after end of the tube

6 If so, state type 4 Length of Bearing in Stern Bush next to and supporting propeller 1400 in.

r, dia. 4050 in. Pitch 3150 in. No. of blades 3 Material Bronze whether Moveable or Total Developed Surface 53 sq. feet

s 27-7-2 of reversing Engines Air Governor is a governor or other arrangement fitted to prevent racing of the engine when declutched 4 Means of lubrication

21-10-3 d Thickness of cylinder liners 4 Are the cylinders fitted with safety valves 4 Are the exhaust pipes and silencers water cooled or lagged with

8293 WJL lagging material lapped If the exhaust is led overboard near the waterline, what means are arranged to prevent water from being syphoned back to the engine to furnace

8290 WJL Water Pumps, No. 2 Is the sea suction provided with an efficient strainer which can be cleared within the vessel 4

9159 MB 1 Pumps worked from the Main Engines, No. 2 Diameter 150 in. Stroke 254 in. Can one be overhauled while the other is at work 4

4278 KH 1 connected to the Main Bilge Line No. and Size 4 How driven 4

4270 KH 1 Pumps, No. and size 4 Lubricating Oil Pumps, including Spare Pump, No. and size 4

4271 KH 1 independent means arranged for circulating water through the Oil Cooler 4 Suctions, connected to both Main Bilge Pumps and Auxiliary Bilge

2267 No. and size:—In Machinery Spaces 4 &c. 4

dent Power Pump Direct Suctions to the Engine Room Bilges, No. and size 4

he Bilge Suction pipes in Holds and Tunnel Well fitted with strum-boxes 4 Are the Bilge Suctions in the Machinery Spaces

asily accessible mud-boxes, placed above the level of the working floor, with straight tail pipes to the bilges 4

ea Connections fitted direct on the skin of the ship 4 Are they fitted with Valves or Cocks 4

ired sufficiently high on the ship's side to be seen without lifting the platform plates 4 Are the Overboard Discharges above or below the deep water line 4

ach fitted with a Discharge Valve always accessible on the plating of the vessel 4 Are the Blow Off Cocks fitted with a spigot and brass covering plate 4

es pass through the bunkers 4 How are they protected 4

es pass through the deep tanks 4 Have they been tested as per Rule 4

ipes, Cocks, Valves, and Pumps in connection with the machinery and all boiler mountings accessible at all times 4

angement 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

ent to another Is the Shaft Tunnel watertight 4 Is it fitted with a watertight door 4

2 vessel, what means are provided to prevent leakage of either fuel oil or of lubricating oil from saturating the woodwork 4

ir Compressors, No. 2 No. of stages 2 Diameters 520-1540-120 Stroke 450 in. Driven by Main engine 4

ry Air Compressors, No. 1 No. of stages 3 Diameters 18 3/4-4 1/2-5 Stroke 12 in. Driven by Stern 4

uxiliary Air Compressors, No. 4 No. of stages 4 Diameters 4 Stroke 4 Driven by 4

ing Air Pumps, No. 4 Diameter 4 Stroke 4 Driven by 4

ry Engines crank shafts, diameter as per Rule 116 in. as fitted 116 in. 4

RECEIVERS:—Is each receiver, which can be isolated, fitted with a safety valve as per Rule 4

ipping Internal surfaces of the receivers be examined 4 What means are provided for cleaning their inner surfaces hand hole

a drain arrangement fitted at the lowest part of each receiver 4

ressure Air Receivers, No. 2 Cubic capacity of each 400 Ltr Internal diameter 450 in. thickness 11 in.

lap welded or riveted longitudinal joint 4 Material Steel Range of tensile strength 50-56 kg/cm² Working pressure by Rules 14.25 lb/cm²

2 Air Receivers, No. 4 Total cubic capacity 1400 cub ft. Internal diameter 1595 in. thickness 20 in.

lap welded or riveted longitudinal joint 4 Material Steel Range of tensile strength 29 3/4-35 kg/cm² Working pressure by Rules 34 lb/cm²

4

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IS A DONKEY BOILER FITTED?

PLANS. Are approved plans forwarded herewith for Shafting (If not, state date of approval)

If so, is a report now forwarded? ☒

Donkey Boilers ☒

General Pumping Arrangements ☒

Receivers in London Separate Tanks

Oil Fuel Burning Arrangements ☒

SPARE GEAR

Please see list attached.

The foregoing is a correct description,

WELLSPOUR

J. J. Thurg.

Manufacturer.

Dates of Survey while building
During progress of work in shops -- 24/10, 25/10, 28/10, 30/10, 15/11, 18/11, 19/11, 20/11, 24/11, 1/12, 2/12, 6/12, 8/12, 30/12, 1930
During erection on board vessel -- 6/1, 13/1, 24/1, 26/1, 3/2, 6/2, 10/2, 12/2, 19/2, 2/3, 25/3, 1/3, 4/3, 6/3, 10/3, 13/3, 24/3, 3/4, 14/4, 1931
Total No. of visits 36

Dates of Examination of principal parts—Cylinders 24/10, 30/10, Covers 24/10, 30/10, Pistons 24/10, 30/10, Rods 24/10, 30/10, Connecting rods 24/10, 30/10
Crank shaft 24/10, 30/10, Flywheel shaft 24/10, 30/10, Thrust shaft 24/10, 30/10, Intermediate shafts 24/10, 30/10, Tube shaft 24/10, 30/10
Screw shaft 24/10, 30/10, Propeller 22/12, Stern tube 22/12, Engine seatings 22/12, Engines holding down bolts 22/12
Completion of fitting sea connections 22/12, Completion of pumping arrangements 22/12, Engines tried under working conditions 22/12

Crank shaft, Material Steel Identification Mark 8424, 8425, 8426, 8427, 8428, 8429, 8430, 8431, 8432, 8433, 8434, 8435, 8436, 8437, 8438, 8439, 8440, 8441, 8442, 8443, 8444, 8445, 8446, 8447, 8448, 8449, 8450, 8451, 8452, 8453, 8454, 8455, 8456, 8457, 8458, 8459, 8460, 8461, 8462, 8463, 8464, 8465, 8466, 8467, 8468, 8469, 8470, 8471, 8472, 8473, 8474, 8475, 8476, 8477, 8478, 8479, 8480, 8481, 8482, 8483, 8484, 8485, 8486, 8487, 8488, 8489, 8490, 8491, 8492, 8493, 8494, 8495, 8496, 8497, 8498, 8499, 8500, 8501, 8502, 8503, 8504, 8505, 8506, 8507, 8508, 8509, 8510, 8511, 8512, 8513, 8514, 8515, 8516, 8517, 8518, 8519, 8520, 8521, 8522, 8523, 8524, 8525, 8526, 8527, 8528, 8529, 8530, 8531, 8532, 8533, 8534, 8535, 8536, 8537, 8538, 8539, 8540, 8541, 8542, 8543, 8544, 8545, 8546, 8547, 8548, 8549, 8550, 8551, 8552, 8553, 8554, 8555, 8556, 8557, 8558, 8559, 8560, 8561, 8562, 8563, 8564, 8565, 8566, 8567, 8568, 8569, 8570, 8571, 8572, 8573, 8574, 8575, 8576, 8577, 8578, 8579, 8580, 8581, 8582, 8583, 8584, 8585, 8586, 8587, 8588, 8589, 8590, 8591, 8592, 8593, 8594, 8595, 8596, 8597, 8598, 8599, 8600, 8601, 8602, 8603, 8604, 8605, 8606, 8607, 8608, 8609, 8610, 8611, 8612, 8613, 8614, 8615, 8616, 8617, 8618, 8619, 8620, 8621, 8622, 8623, 8624, 8625, 8626, 8627, 8628, 8629, 8630, 8631, 8632, 8633, 8634, 8635, 8636, 8637, 8638, 8639, 8640, 8641, 8642, 8643, 8644, 8645, 8646, 8647, 8648, 8649, 8650, 8651, 8652, 8653, 8654, 8655, 8656, 8657, 8658, 8659, 8660, 8661, 8662, 8663, 8664, 8665, 8666, 8667, 8668, 8669, 8670, 8671, 8672, 8673, 8674, 8675, 8676, 8677, 8678, 8679, 8680, 8681, 8682, 8683, 8684, 8685, 8686, 8687, 8688, 8689, 8690, 8691, 8692, 8693, 8694, 8695, 8696, 8697, 8698, 8699, 8700, 8701, 8702, 8703, 8704, 8705, 8706, 8707, 8708, 8709, 8710, 8711, 8712, 8713, 8714, 8715, 8716, 8717, 8718, 8719, 8720, 8721, 8722, 8723, 8724, 8725, 8726, 8727, 8728, 8729, 8730, 8731, 8732, 8733, 8734, 8735, 8736, 8737, 8738, 8739, 8740, 8741, 8742, 8743, 8744, 8745, 8746, 8747, 8748, 8749, 8750, 8751, 8752, 8753, 8754, 8755, 8756, 8757, 8758, 8759, 8760, 8761, 8762, 8763, 8764, 8765, 8766, 8767, 8768, 8769, 8770, 8771, 8772, 8773, 8774, 8775, 8776, 8777, 8778, 8779, 8780, 8781, 8782, 8783, 8784, 8785, 8786, 8787, 8788, 8789, 8790, 8791, 8792, 8793, 8794, 8795, 8796, 8797, 8798, 8799, 8800, 8801, 8802, 8803, 8804, 8805, 8806, 8807, 8808, 8809, 8810, 8811, 8812, 8813, 8814, 8815, 8816, 8817, 8818, 8819, 8820, 8821, 8822, 8823, 8824, 8825, 8826, 8827, 8828, 8829, 8830, 8831, 8832, 8833, 8834, 8835, 8836, 8837, 8838, 8839, 8840, 8841, 8842, 8843, 8844, 8845, 8846, 8847, 8848, 8849, 8850, 8851, 8852, 8853, 8854, 8855, 8856, 8857, 8858, 8859, 8860, 8861, 8862, 8863, 8864, 8865, 8866, 8867, 8868, 8869, 8870, 8871, 8872, 8873, 8874, 8875, 8876, 8877, 8878, 8879, 8880, 8881, 8882, 8883, 8884, 8885, 8886, 8887, 8888, 8889, 8890, 8891, 8892, 8893, 8894, 8895, 8896, 8897, 8898, 8899, 8900, 8901, 8902, 8903, 8904, 8905, 8906, 8907, 8908, 8909, 8910, 8911, 8912, 8913, 8914, 8915, 8916, 8917, 8918, 8919, 8920, 8921, 8922, 8923, 8924, 8925, 8926, 8927, 8928, 8929, 8930, 8931, 8932, 8933, 8934, 8935, 8936, 8937, 8938, 8939, 8940, 8941, 8942, 8943, 8944, 8945, 8946, 8947, 8948, 8949, 8950, 8951, 8952, 8953, 8954, 8955, 8956, 8957, 8958, 8959, 8960, 8961, 8962, 8963, 8964, 8965, 8966, 8967, 8968, 8969, 8970, 8971, 8972, 8973, 8974, 8975, 8976, 8977, 8978, 8979, 8980, 8981, 8982, 8983, 8984, 8985, 8986, 8987, 8988, 8989, 8990, 8991, 8992, 8993, 8994, 8995, 8996, 8997, 8998, 8999, 9000, 9001, 9002, 9003, 9004, 9005, 9006, 9007, 9008, 9009, 9010, 9011, 9012, 9013, 9014, 9015, 9016, 9017, 9018, 9019, 9020, 9021, 9022, 9023, 9024, 9025, 9026, 9027, 9028, 9029, 9030, 9031, 9032, 9033, 9034, 9035, 9036, 9037, 9038, 9039, 9040, 9041, 9042, 9043, 9044, 9045, 9046, 9047, 9048, 9049, 9050, 9051, 9052, 9053, 9054, 9055, 9056, 9057, 9058, 9059, 9060, 9061, 9062, 9063, 9064, 9065, 9066, 9067, 9068, 9069, 9070, 9071, 9072, 9073, 9074, 9075, 9076, 9077, 9078, 9079, 9080, 9081, 9082, 9083, 9084, 9085, 9086, 9087, 9088, 9089, 9090, 9091, 9092, 9093, 9094, 9095, 9096, 9097, 9098, 9099, 9100, 9101, 9102, 9103, 9104, 9105, 9106, 9107, 9108, 9109, 9110, 9111, 9112, 9113, 9114, 9115, 9116, 9117, 9118, 9119, 9120, 9121, 9122, 9123, 9124, 9125, 9126, 9127, 9128, 9129, 9130, 9131, 9132, 9133, 9134, 9135, 9136, 9137, 9138, 9139, 9140, 9141, 9142, 9143, 9144, 9145, 9146, 9147, 9148, 9149, 9150, 9151, 9152, 9153, 9154, 9155, 9156, 9157, 9158, 9159, 9160, 9161, 9162, 9163, 9164, 9165, 9166, 9167, 9168, 9169, 9170, 9171, 9172, 9173, 9174, 9175, 9176, 9177, 9178, 9179, 9180, 9181, 9182, 9183, 9184, 9185, 9186, 9187, 9188, 9189, 9190, 9191, 9192, 9193, 9194, 9195, 9196, 9197, 9198, 9199, 9200, 9201, 9202, 9203, 9204, 9205, 9206, 9207, 9208, 9209, 9210, 9211, 9212, 9213, 9214, 9215, 9216, 9217, 9218, 9219, 9220, 9221, 9222, 9223, 9224, 9225, 9226, 9227, 9228, 9229, 9230, 9231, 9232, 9233, 9234, 9235, 9236, 9237, 9238, 9239, 9240, 9241, 9242, 9243, 9244, 9245, 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9744, 9745, 9746, 9747, 9748, 9749, 9750, 9751, 9752, 9753, 9754, 9755, 9756, 9757, 9758, 9759, 9760, 9761, 9762, 9763, 9764, 9765, 9766, 9767, 9768, 9769, 9770, 9771, 9772, 9773, 9774, 9775, 9776, 9777, 9778, 9779, 9780, 9781, 9782, 9783, 9784, 9785, 9786, 9787, 9788, 9789, 9790, 9791, 9792, 9793, 9794, 9795, 9796, 9797, 9798, 9799, 9800, 9801, 9802, 9803, 9804, 9805, 9806, 9807, 9808, 9809, 9810, 9811, 9812, 9813, 9814, 9815, 9816, 9817, 9818, 9819, 9820, 9821, 9822, 9823, 9824, 9825, 9826, 9827, 9828, 9829, 9830, 9831, 9832, 9833, 9834, 9835, 9836, 9837, 9838, 9839, 9840, 9841, 9842, 9843, 9844, 9845, 9846, 9847, 9848, 9849, 9850, 9851, 9852, 9853, 9854, 9855, 9856, 9857, 9858, 9859, 9860, 9861, 9862, 9863, 9864, 9865, 9866, 9867, 9868, 9869, 9870, 9871, 9872, 9873, 9874, 9875, 9876, 9877, 9878, 9879, 9880, 9881, 9882, 9883, 9884, 9885, 9886, 9887, 9888, 9889, 9890, 9891, 9892, 9893, 9894, 9895, 9896, 9897, 9898, 9899, 9900, 9901, 9902, 9903, 9904, 9905, 9906, 9907, 9908, 9909, 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Thrust shaft, Material Steel Identification Mark 8424, 8425, 8426, 8427, 8428, 8429, 8430, 8431, 8432, 8433, 8434, 8435, 8436, 8437, 8438, 8439, 8440, 8441, 8442, 8443, 8444, 8445, 8446, 8447, 8448, 8449, 8450, 8451, 8452, 8453, 8454, 8455, 8456, 8457, 8458, 8459, 8460, 8461, 8462, 8463, 8464, 8465, 8466, 8467, 8468, 8469, 8470, 8471, 8472, 8473, 8474, 8475, 8476, 8477, 8478, 8479, 8480, 8481, 8482, 8483, 8484, 8485, 8486, 8487, 8488, 8489, 8490, 8491, 8492, 8493, 8494, 8495, 8496, 8497, 8498, 8499, 8500, 8501, 8502, 8503, 8504, 8505, 8506, 8507, 8508, 8509, 8510, 8511, 8512, 8513, 8514, 8515, 8516, 8517, 8518, 8519, 8520, 8521, 8522, 8523, 8524, 8525, 8526, 8527, 8528, 8529, 8530, 8531, 8532, 8533, 8534, 8535, 8536, 8537, 8538, 8539, 8540, 8541, 8542, 8543, 8544, 8545, 8546, 8547, 8548, 8549, 8550, 8551, 8552, 8553, 8554, 8555, 8556, 8557, 8558, 8559, 8560, 8561, 8562, 8563, 8564, 8565, 8566, 8567, 8568, 8569, 8570, 8571, 8572, 8573, 8574, 8575, 8576, 8577, 8578, 8579, 8580, 8581, 8582, 8583, 8584, 8585, 8586, 8587, 8588, 8589, 8590, 8591, 8592, 8593, 8594, 8595, 8596, 8597, 8598, 8599, 8600, 8601, 8602, 8603, 8604, 8605, 8606, 8607, 8608, 8609, 8610, 8611, 8612, 8613, 8614, 8615, 8616, 8617, 8618, 8619, 8620, 8621, 8622, 8623, 8624, 8625, 8626, 8627, 8628, 8629, 8630, 8631, 8632, 8633, 8634, 8635, 8636, 8637, 8638, 8639, 8640, 8641, 8642, 8643, 8644, 8645, 8646, 8647, 8648, 8649, 8650, 8651, 8652, 8653, 8654, 8655, 8656, 8657, 8658, 8659, 8660, 8661, 8662, 8663, 8664, 8665, 8666, 8667, 8668, 8669, 8670, 8671, 8672, 8673, 8674, 8675, 8676, 8677, 8678, 8679, 8680, 8681, 8682, 8683, 8684, 8685, 8686, 8687, 8688, 8689, 8690, 8691, 8692, 8693, 8694, 8695, 8696, 8697, 8698, 8699, 8700, 8701, 8702, 8703, 8704, 8705, 8706, 8707, 8708, 8709, 8710, 8711, 8712, 8713, 871