

# REPORT ON MACHINERY.

No. 9014

Received at London Office

MON. DEC. 10 1923

Date of writing Report

19

When handed in at Local Office

Dec 4th 1923

Port of

Belfast

No. in Survey held at Reg. Book.

Belfast

Date, First Survey 1922 Dec 11

Last Survey Dec 4

1923

on the **New Steel Y.S.S. Port Brisbane**

Master

Built at

Belfast

By whom built

Workman Clark & Co Ltd (H67) when made 1923

Engines made at

Belfast

By whom made

Workman Clark & Co Ltd (H67) when made 1923

Boilers made at

Belfast

By whom made

Workman Clark & Co Ltd (H67) when made 1923

Registered Horse Power

Owners Commonwealth Dominion Line Ltd Port belonging to London.

Nom. Horse Power as per Section 28

860

Is Refrigerating Machinery fitted for cargo purposes

Is Electric Light fitted

## ENGINES, &c.

Description of Engines

Twin screw Triple expansion

No. of Cylinders

6

No. of Cranks

6

Dia. of Cylinders

22 1/2" x 38" x 63 1/2"

Length of Stroke

48"

Revs. per minute

84

Dia. of Screw shaft

as per rule 13.86  
as fitted 11 1/2" x screw shaft

Is the screw shaft fitted with a continuous liner the whole length of the stern tube

Is the after end of the liner made water tight

in the propeller boss  If the liner is in more than one length are the joints burned

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

If two liners are fitted, is the shaft lapped or protected between the liners

Length of stern bush 5'-0"

Dia. of Tunnel shaft

as per rule 12.28  
as fitted 12.48

Dia. of Crank shaft journals

as per rule 13.0  
as fitted 13.4

Dia. of Crank pin

13 1/2"

Size of Crank webs

9 x 19 1/2"

Dia. of thrust shaft under

collars 13 1/2" x Dia. of screw 11 1/2" x Pitch of Screw 1 1/2"

No. of Feed pumps

Two

Diameter of ditto

6"

Stroke

24"

Can one be overhauled while the other is at work

Yes

Total surface 80 sq ft (one propeller)

No. of Bilge pumps

Two

Diameter of ditto

6"

Stroke

24"

Can one be overhauled while the other is at work

Yes

No. of Donkey Engines

See list

Sizes of Pumps

No. and size of Suctions connected to both Bilge and Donkey pumps

In Engine Room

5 @ 3 1/2" dia & 1 @ 4 1/2" direct

In Holds, &c. No 1, 2 @ 3 1/2", No 2 @ 3 1/2" No 3

No. of Bilge Injections

2 sizes

9"

Connected to condenser, or to circulating pump

Yes

Is a separate Donkey Suction fitted in Engine room & size 4 1/2"

Are all the bilge suction pipes fitted with roses

Are the roses in Engine room always accessible

Are the sluices on Engine room bulkheads always accessible

Are all connections with the sea direct on the skin of the ship

Are they Valves or Cocks

Both

Are they fixed sufficiently high on the ship's side to be seen without lifting the stokehold plates

Are the Discharge Pipes above or below the deep water line

above

Are they each fitted with a Discharge Valve always accessible on the plating of the vessel

Are the Blow Off Cocks fitted with a spigot and brass covering plate

Yes

What pipes are carried through the bunkers

Bilge, Ballast Pipes & Brine Pipes to food holds

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

Are the Bilge Suction Pipes, Cocks, and Valves arranged so as to prevent any communication between the sea and the bilges

Yes

Is the Screw Shaft Tunnel watertight

Is it fitted with a watertight door

Yes

worked from top platform.

BOILERS, &c. (Letter for record)

5

Manufacturers of Steel

W. Beardmore & Co.

Total Heating Surface of Boilers

12,900

Is Forced Draft fitted

Yes

No. and Description of Boilers

4 Single Ended

Working Pressure

200 lbs

Tested by hydraulic pressure to

350 lbs

Date of test

4-9-23

No. of Certificate

824

Can each boiler be worked separately

Yes

Area of fire grate in each boiler

48.45 sq ft

No. and Description of Safety Valves to

each boiler 2 1/2" double

Smallest distance between boilers or uptakes and bunkers

20"

Pressure to which they are adjusted

205 lbs

Are they fitted with easing gear

Yes

Thickness

1 1/2"

Range of tensile strength

28 1/2 to 32 1/2 tons

Are the shell plates welded or flanged

No

Descrip. of riveting: cir. seams

D R L

long. seams

T.R.D.B.S.

Diameter of rivet holes in long. seams

1 1/2"

Pitch of rivets

10 1/2"

Top of plates or width of butt straps

22 9/16"

Per centages of strength of longitudinal joint

rivets 88.4

Working pressure of shell by rules

202 lbs

Size of manhole in shell

16" x 12"

Size of compensating ring

5-3 x 3-0 x 1-1/2"

No. and Description of Furnaces in each boiler

4 Morrison

Material

Steel

Outside diameter

3-11 3/8"

Length of plain part

top bottom

Thickness of plates

crown 1 1/2"

Description of longitudinal joint

Weld

No. of strengthening rings

2 1/2"

Working pressure of furnace by the rules

205 lbs

Combustion chamber plates: Material

Steel

Thickness: Sides

1/16"

Back

2 1/2"

Top

1/16"

Bottom 2 1/2"

Pitch of stays to ditto: Sides

9 1/8" x 4 1/8"

Back

9 1/2" x 4 1/8"

Top

9 1/8" x 8"

If stays are fitted with nuts or riveted heads

huts

Working pressure by rules

202 lbs

End plates in steam space:

Material of stays

Steel

Area at smallest part

1 1/2" x 10 1/4"

How are stays secured

D.N. Wash

Working pressure by rules

206 lbs

Material of stays

Steel

Area at smallest part

Thickness

1"

Material of Lower back plate

Steel

Thickness

8"

Greatest pitch of stays

4 1/2" x 9"

Working pressure of plate by rules

212 lbs

Pitch across wide water spaces

Diameter of tubes

2 1/2"

Pitch of tubes

3 1/4" x 3 1/8"

Material of tube plates

Steel

Thickness: Front

1/8"

Back

13/16"

Mean pitch of stays

Working pressures by rules

224 lbs

Girders to Chamber tops: Material

Steel

Depth and

thickness of girder at centre

2 @ 10 3/4" x 3 1/4"

Length as per rule

3 1/2"

Distance apart

8" + 6 3/4"

Working pressure by rules

214 lbs

Steam dome: description of joint to shell

none

% of strength of joint

Diam. of rivet holes

Diameter

Thickness of shell plates

Material

Description of longitudinal joint

How stayed

Pitch of rivets

Working pressure of shell by rules

Crown plates

Thickness

How stayed

SUPERHEATER. Type

none

Date of Approval of Plan

Tested by Hydraulic Pressure to

Is a Safety Valve fitted to each Section of the Superheater which can be shut off from the Boiler

Pressure to which each is adjusted

Is Easing Gear fitted

Date of Test

iameter of Safety Valve

Pressure to which each is adjusted

Is Easing Gear fitted

Is Easing Gear fitted

2m.116. F.

Is a Report also sent on the Hull of the ship?

If not, state whether, and when, one will be sent?

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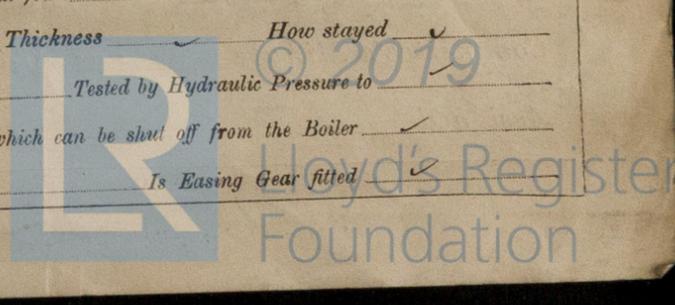
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WFB-0084

IS A DONKEY BOILER FITTED? no

If so, is a report now forwarded?

SPARE GEAR. State the articles supplied: - Two each bolts & nuts for top & bottom ends & main bearings, one set coupling bolts, one set feed sledge pump valves, quantity of assorted bolts nuts & iron. - One Tail shaft Thrust blades 2 pair Crank & Crosshead bushes 2 P & P & 2 P valve spindles 2 air pp nuts & nuts. 1 set escape valve & safety & springs. 1 ci. pp impeller & 2 spindles. & 2 feet check valves. 2 sets rings for each piston. 30 tubes & 100 females for cond. 1 Thompson Coupling. Pumps: - Cent. Ci. 2 C 9x8x15 hp <sup>1 1/2"</sup> suction & discharge pp 23x27 1/2" aux. ci. pp 15x10x10, Weir feed pp 2 C 10x13 1/2x26, Gun S pp 9x6x10 Ball pp 8x10x10, Sanitary 6x4x6, Fresh W pp 5x5x6 Refug. Ci. pp 8 1/2x10x10

The foregoing is a correct description FOR WORKMAN, CLARK & CO., LIMITED.

F. Cunningham

Manufacturer.

Dates of Survey while building: During progress of work in shops -- 1922 Dec 11 1923 Jan 26, Feb 6, 12, 16, 19, 28, Mar 9, 12, 13, 19, 21, 22, Apr 5, 6, 10, 11, 19, 25, 26, May 7, 9, 14, 15, 18, 25, 29, June 4, 6, 8, 11, 14, 19, 21, 27, 28, 29, July 2, 3, 18, 19, 23, 25, 31, Aug 1, 2, 6, 8, 9, 15, 17, 20, 21, 27, 29, 31, Sep 4, 6, 7, 14, 17, 20, 21, 24, 25, 28, Oct 1, 4, 5, 10, 11, 15, 17, 22, 29, 30, 31, Nov 1, 2, 5, 7, 12, 13, 14, 15, 19, 21, 26, 27, 30. Dec 4. Total No. of visits 91

Is the approved plan of main boiler forwarded herewith yes

" " " donkey " " "

Dates of Examination of principal parts - Cylinders 8-8-23 Slides 29-8-23 Covers 29-8-23 Pistons 18-7-23 Rods 28-6-23 Connecting rods 28-6-23 Crank shaft 18-7-23 Thrust shaft 18-7-23 Tunnel shafts 18-7-23 Screw shaft 6-9-23 Propeller 29-6-23 Stern tube 29-4-23 Steam pipes tested 29-8-23 (13-11-23) Engine and boiler seatings 1-10-23 Engines holding down bolts 15-11-23 Completion of pumping arrangements 30-11-23 Boilers fixed 15-11-23 Engines tried under steam 11-12-23 Completion of fitting sea connections 1-10-23 Stern tube 1-10-23 Screw shaft and propeller 1-10-23 Main boiler safety valves adjusted 24-11-23 Thickness of adjusting washers S.F. 2 1/2 9 S.A. 5 P.A. 11 P.F. 6 1/2 1165 1/2 1165 1/2 Material of Crank shaft Steel Identification Mark on Do. 1162, 1163, 1164, 1165, 1166, 1167, 1168, 1169, 1170, 1171, 1172, 1173, 1174, 1175, 1176, 1177, 1178, 1179, 1180, 1181, 1182, 1183, 1184, 1185, 1186, 1187, 1188, 1189, 1190, 1191, 1192, 1193, 1194, 1195, 1196, 1197, 1198, 1199, 1200, 1201, 1202, 1203, 1204, 1205, 1206, 1207, 1208, 1209, 1210, 1211, 1212, 1213, 1214, 1215, 1216, 1217, 1218, 1219, 1220, 1221, 1222, 1223, 1224, 1225, 1226, 1227, 1228, 1229, 1230, 1231, 1232, 1233, 1234, 1235, 1236, 1237, 1238, 1239, 1240, 1241, 1242, 1243, 1244, 1245, 1246, 1247, 1248, 1249, 1250, 1251, 1252, 1253, 1254, 1255, 1256, 1257, 1258, 1259, 1260, 1261, 1262, 1263, 1264, 1265, 1266, 1267, 1268, 1269, 1270, 1271, 1272, 1273, 1274, 1275, 1276, 1277, 1278, 1279, 1280, 1281, 1282, 1283, 1284, 1285, 1286, 1287, 1288, 1289, 1290, 1291, 1292, 1293, 1294, 1295, 1296, 1297, 1298, 1299, 1300, 1301, 1302, 1303, 1304, 1305, 1306, 1307, 1308, 1309, 1310, 1311, 1312, 1313, 1314, 1315, 1316, 1317, 1318, 1319, 1320, 1321, 1322, 1323, 1324, 1325, 1326, 1327, 1328, 1329, 1330, 1331, 1332, 1333, 1334, 1335, 1336, 1337, 1338, 1339, 1340, 1341, 1342, 1343, 1344, 1345, 1346, 1347, 1348, 1349, 1350, 1351, 1352, 1353, 1354, 1355, 1356, 1357, 1358, 1359, 1360, 1361, 1362, 1363, 1364, 1365, 1366, 1367, 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2364, 2365, 2366, 2367, 2368, 2369, 2370, 2371, 2372, 2373, 2374, 2375, 2376, 2377, 2378, 2379, 2380, 2381, 2382, 2383, 2384, 2385, 2386, 2387, 2388, 2389, 2390, 2391, 2392, 2393, 2394, 2395, 2396, 2397, 2398, 2399, 2400, 2401, 2402, 2403, 2404, 2405, 2406, 2407, 2408, 2409, 2410, 2411, 2412, 2413, 2414, 2415, 2416, 2417, 2418, 2419, 2420, 2421, 2422, 2423, 2424, 2425, 2426, 2427, 2428, 2429, 2430, 2431, 2432, 2433, 2434, 2435, 2436, 2437, 2438, 2439, 2440, 2441, 2442, 2443, 2444, 2445, 2446, 2447, 2448, 2449, 2450, 2451, 2452, 2453, 2454, 2455, 2456, 2457, 2458, 2459, 2460, 2461, 2462, 2463, 2464, 2465, 2466, 2467, 2468, 2469, 2470, 2471, 2472, 2473, 2474, 2475, 2476, 2477, 2478, 2479, 2480, 2481, 2482, 2483, 2484, 2485, 2486, 2487, 2488, 2489, 2490, 2491, 2492, 2493, 2494, 2495, 2496, 2497, 2498, 2499, 2500, 2501, 2502, 2503, 2504, 2505, 2506, 2507, 2508, 2509, 2510, 2511, 2512, 2513, 2514, 2515, 2516, 2517, 2518, 2519, 2520, 2521, 2522, 2523, 2524, 2525, 2526, 2527, 2528, 2529, 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2696, 2697, 2698, 2699, 2700, 2701, 2702, 2703, 2704, 2705, 2706, 2707, 2708, 2709, 2710, 2711, 2712, 2713, 2714, 2715, 2716, 2717, 2718, 2719, 2720, 2721, 2722, 2723, 2724, 2725, 2726, 2727, 2728, 2729, 2730, 2731, 2732, 2733, 2734, 2735, 2736, 2737, 2738, 2739, 2740, 2741, 2742, 2743, 2744, 2745, 2746, 2747, 2748, 2749, 2750, 2751, 2752, 2753, 2754, 2755, 2756, 2757, 2758, 2759, 2760, 2761, 2762, 2763, 2764, 2765, 2766, 2767, 2768, 2769, 2770, 2771, 2772, 2773, 2774, 2775, 2776, 2777, 2778, 2779, 2780, 2781, 2782, 2783, 2784, 2785, 2786, 2787, 2788, 2789, 2790, 2791, 2792, 2793, 2794, 2795, 2796, 2797, 2798, 2799, 2800, 2801, 2802, 2803, 2804, 2805, 2806, 2807, 2808, 2809, 2810, 2811, 2812, 2813, 2814, 2815, 2816, 2817, 2818, 2819, 2820, 2821, 2822, 2823, 2824, 2825, 2826, 2827, 2828, 2829, 2830, 2831, 2832, 2833, 2834, 2835, 2836, 2837, 2838, 2839, 2840, 2841, 2842, 2843, 2844, 2845, 2846, 2847, 2848, 2849, 2850, 2851, 2852, 2853, 2854, 2855, 2856, 2857, 2858, 2859, 2860, 2861, 2862, 2863, 2864, 2865, 2866, 2867, 2868, 2869, 2870, 2871, 2872, 2873, 2874, 2875, 2876, 2877, 2878, 2879, 2880, 2881, 2882, 2883, 2884, 2885, 2886, 2887, 2888, 2889, 2890, 2891, 2892, 2893, 2894, 2895, 2896, 2897, 2898, 2899, 2900, 2901, 2902, 2903, 2904, 2905, 2906, 2907, 2908, 2909, 2910, 2911, 2912, 2913, 2914, 2915, 2916, 2917, 2918, 2919, 2920, 2921, 2922, 2923, 2924, 2925, 2926, 2927, 2928, 2929, 2930, 2931, 2932, 2933, 2934, 2935, 2936, 2937, 2938, 2939, 2940, 2941, 2942, 2943, 2944, 2945, 2946, 2947, 2948, 2949, 2950, 2951, 2952, 2953, 2954, 2955, 2956, 2957, 2958, 2959, 2960, 2961, 2962, 2963, 2964, 2965, 2966, 2967, 2968, 2969, 2970, 2971, 2972, 2973, 2974, 2975, 2976, 2977, 2978, 2979, 2980, 2981, 2982, 2983, 2984, 2985, 2986, 2987, 2988