

Date of writing Report 16th July 1910 When handed in at Local Office

Port of Bremerhaven

No. in Survey held at Teestemunde
Reg. Book.Date, First Survey 4th January Last Survey 16th July 1910

(Number of Visits 19)

on the steel screw steamer Birkenfels

Master Frericks

Built at Teestemunde

By whom built Joh. C. Tschubert & Co.

When built 1910

Engines made at Teestemunde

By whom made Joh. C. Tschubert & Co.

when made 1910

Boilers made at Teestemunde

By whom made Joh. C. Tschubert & Co.

when made 1910

Registered Horse Power 517

Owners D. D. Lu. Hansa

Port belonging to Bremen

Nom. Horse Power as per Section 28 517

Is Refrigerating Machinery fitted for cargo purposes No

Is Electric Light fitted Yes

ENGINES, &c.—Description of Engines Two quadruple compound condensing No. of Cylinders 4 No. of Cranks 4

Dia. of Cylinders 24 1/2, 34 1/2, 50 1/2, 74 1/2 Length of Stroke 53 1/2 Revs. per minute 75 Dia. of Screw shaft as per rule 16 3/8 Material of screw shaft as fitted 16 3/8

Is the screw shaft fitted with a continuous liner the whole length of the stern tube No 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 10' 1 1/2"

Dia. of Tunnel shaft as per rule 13 3/4 Dia. of Crank shaft journals as per rule 14 1/4 Dia. of Crank pin 4 1/2 Size of Crank webs 9 1/2 Dia. of thrust shaft under

collars 14 1/2 Dia. of screw 22 1/2 Pitch of Screw 240 1/2 No. of Blades 4 State whether moveable Yes Total surface 109.98

No. of Feed pumps 2 Diameter of ditto 3 3/4 Stroke 28 1/2 Can one be overhauled while the other is at work Yes

No. of Bilge pumps 2 Diameter of ditto 4 1/2 Stroke 27 1/2 Can one be overhauled while the other is at work Yes

No. of Donkey Engines 3 Sizes of Pumps 13 1/2 x 15 1/2, 9 1/2 x 5 1/2, 14 1/2 x 4 1/2 No. and size of Suctions connected to both Bilge and Donkey pumps

In Engine Room 4 in 8 in B. room 3 1/2 diam. In Holds, &c. 2 in each hold 3 1/2 diam. / in tunnel 3 1/2 diam.

No. of Bilge Injections 1 sizes 8" Connected to condenser, or to circulating pump Directly Is a separate Donkey Suction fitted in Engine room & size Yes 3 1/2 diam.

Are all the bilge suction pipes fitted with roses Yes Are the roses in Engine room always accessible Yes Are the sluices on Engine room bulkheads always accessible Yes

Are all connections with the sea direct on the skin of the ship Yes Are they Valves or Cocks both

Are they fixed sufficiently high on the ship's side to be seen without lifting the stokehold plates Yes 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 Yes Are the Blow Off Cocks fitted with a spigot and brass covering plate Yes

What pipes are carried through the bunkers Bilge suction How are they protected wooden boxes

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

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

Dates of examination of completion of fitting of Sea Connections 6th July of Stern Tube 7th July Screw shaft and Propeller 7th July

Is the Screw Shaft Tunnel watertight Yes Is it fitted with a watertight door Yes worked from Engine room platform above deck

BOILERS, &c.—(Letter for record in) Manufacturers of Steel Frick, Kopp & Rheinische Stahlwerke

Total Heating Surface of Boilers 6780 Is Forced Draft fitted Yes No. and Description of Boilers 3 cylindrical corrugated steel

Working Pressure 213 lb Tested by hydraulic pressure to 285 lb Date of test 30.5.14.6. No. of Certificate 120/121/122.

Can each boiler be worked separately Yes Area of fire grate in each boiler 59.8 No. and Description of Safety Valves to

each boiler 2 spring valves Area of each valve 12.18 Pressure to which they are adjusted 213 lb Are they fitted with easing gear Yes

Smallest distance between boilers or uptakes and bunkers or woodwork 12" Mean dia. of boilers 14' 2 3/4" Length 12' 7 1/2" Material of shell plates S.M. steel

Thickness 1 3/4 Range of tensile strength 27.9-31.7 Are the shell plates welded or flanged flanges Descrip. of riveting: cir. seams double

long. seams both Diameter of rivet holes in long. seams 2 3/4 Pitch of rivets 9 1/2 Lap of plates or width of butt straps 2 1/4

Per centages of strength of longitudinal joint rivets 84.6% Working pressure of shell by rules 224 lb Size of manhole in shell 18 1/2 x 15 1/2

Size of compensating ring 9 1/2 x 13 1/2 No. and Description of Furnaces in each boiler 3 Morrison Material S.M. steel Outside diameter 40 3/4

Length of plain part top 7 1/2 bottom 7 1/2 Thickness of plates crown 4 1/4 Description of longitudinal joint welded No. of strengthening rings —

Working pressure of furnace by the rules 260 lb Combustion chamber plates: Material S.M. steel Thickness: Sides 4 3/4 Back 4 3/4 Top 4 3/4 Bottom 5 1/4

Pitch of stays to ditto: Sides 8 1/2 Back 6 3/4 Top 7 1/2 If stays are fitted with nuts or riveted heads nuts Working pressure by rules 272 lb

Material of stays Iron Diameter at smallest part 1 9/16 Area supported by each stay 48.9 Working pressure by rules 238 lb End plates in steam space:

Material S.M. steel Thickness 1 3/4 Pitch of stays 14 1/2 x 14 1/2 How are stays secured nuts Working pressure by rules 250 lb Material of stays S.M. steel

Diameter at smallest part 2 1/2 Area supported by each stay 206 Working pressure by rules 288 lb Material of Front plates at bottom S.M. steel

Thickness 1 3/2 Material of Lower back plate S.M. steel Thickness 6 3/4 Greatest pitch of stays 6 3/8 Working pressure of plate by rules 224 lb

Diameter of tubes 2 1/2 Pitch of tubes 3 3/4 Material of tube plates S.M. steel Thickness: Front 1 3/2 Back 5 1/4 Mean pitch of stays 7 1/2

Pitch across wide water spaces 13 3/8 Working pressures by rules 233 lb Girders to Chamber tops: Material S.M. steel Depth and

thickness of girder at centre 10 1/2 x 1 1/2 Length as per rule 36 1/4 Distance apart 6 1/2 Number and pitch of stays in each 3 x 7 1/2

Working pressure by rules 253 lb Superheater or Steam chest; how connected to boiler Can the superheater be shut off and the boiler worked

separately Diameter Length Thickness of shell plates Material Description of longitudinal joint Diam. of rivet

holes Pitch of rivets Working pressure of shell by rules Diameter of flue Material of flue plates Thickness

If stiffened with rings Distance between rings Working pressure by rules End plates: Thickness How stayed

Working pressure of end plates Area of safety valves to superheater Are they fitted with easing gear

VERTICAL DONKEY BOILER—

Manufacturers of Steel

No.	Description	Made at	By whom made	When made	Where fixed
Working pressure	tested by hydraulic pressure to	Date of test	No. of Certificate	Fire grate area	Description of Safety
Valves	No. of Safety Valves	Area of each	Pressure to which they are adjusted	Date of adjustment	
If fitted with easing gear	If steam from main boilers can enter the donkey boiler	Dia. of donkey boiler	Length		
Material of shell plates	Thickness	Range of tensile strength	Descrip. of riveting long. seams		
Dia. of rivet holes	Whether punched or drilled	Pitch of rivets	Lap of plating	Per centage of strength of joint	Rivets Plates
Working pressure of shell by rules	Thickness of shell crown plates	Radius of do.	No. of stays to do.	Dia. of stays	
Diameter of furnace Top	Bottom	Length of furnace	Thickness of furnace plates	Description of joint	
Working pressure of furnace by rules	Thickness of furnace crown plates	Radius of do.	Stayed by		
Diameter of uptake	Thickness of uptake plates	Thickness of water tubes	Dates of survey		

SPARE GEAR. State the articles supplied:—1 crank shaft / 1 propeller shaft / 1 crank pin brass / 1 connecting rod / 1 crankhead bolt & nut / 2 crank pin bolts & nuts / 2 slide valve spindle / 1 set of coupling bolts / 1 piston rod for air pump / 1 set of valves for air pump / 1 fan with shaft / 1 brass with nuts for each side / 1 slide valve spindle for centrifugal pump / 1 set of feet and legs / 1 pump valve / 1 set of lock washers / 2% of condenser tubes with stuffing boxes / 2% of boiler tubes for all boilers / 1 safety valve spring for each boiler / 6 set of gauge glasses / 10% of cylinder and slide valve cover bolts / 10% of piston bolts / 1 complete eccentric strap / 1 set of piston rings for each piston / 1 set of fire bars / nuts / bolts / washers and iron of different sizes / 2 complete sets of firing tools

JOH. C. TECKLENBURG A.G.
Schiffswerft und Maschinenfabrik. Manufacturer.

Dates of Survey while building	During progress of work in shops	4.1 / 10.1 / 25.1 / 11.4 / 9.5 / 11.5 / 30.5 / 4.6 / 5.6 / 7.6 / 18.6
	During erection on board vessel	25.6 / 1.7 / 7.7 / 11.7 / 12.7 / 13.8 / 15.8 / 16.8 / 19.10
Total No. of visits		19

Is the approved plan of main boiler forwarded herewith *Yes*
forwarded with Report N. 1572 on *S. S. Cleopatra*
" " " donkey " " " "

Dates of Examination of principal parts—Cylinders	11.5	Slides	11.5	Covers	30.5	Pistons	30.5	Rods	30.5		
Connecting rods	30.5	Crank shaft	4.6 / 5.6	Thrust shaft	4.6	Tunnel shafts	9.5 / 11.5	Screw shaft	4.6	Propeller	4.6
Stern tube	11.4 / 30.5	Steam pipes tested	25.6	Engine and boiler seatings	30.5	Engines holding down bolts	25.6 / 1.8				
Completion of pumping arrangements	7.7	Boilers fixed	18.6	Engines tried under steam	12.8						
Main boiler safety valves adjusted	12.7	Thickness of adjusting washers	18 / 14.5 / 14.5 / 14.5 / 14.5 / 14.5 / 14.5 / 14.5								
Material of Crank shaft	Identified	Identification Mark on Do.	1950/5306	Material of Thrust shaft	Identified	Identification Mark on Do.	1951/10810				
Material of Tunnel shafts	Identified	Identification Marks on Do.	1952/1953/1954/1955/1956/1957/1958/1959/1960/1961/1962/1963/1964/1965/1966/1967/1968/1969/1970/1971/1972/1973/1974/1975/1976/1977/1978/1979/1980/1981/1982/1983/1984/1985/1986/1987/1988/1989/1990/1991/1992/1993/1994/1995/1996/1997/1998/1999/2000/2001/2002/2003/2004/2005/2006/2007/2008/2009/2010/2011/2012/2013/2014/2015/2016/2017/2018/2019/2020/2021/2022/2023/2024/2025/2026/2027/2028/2029/2030/2031/2032/2033/2034/2035/2036/2037/2038/2039/2040/2041/2042/2043/2044/2045/2046/2047/2048/2049/2050/2051/2052/2053/2054/2055/2056/2057/2058/2059/2060/2061/2062/2063/2064/2065/2066/2067/2068/2069/2070/2071/2072/2073/2074/2075/2076/2077/2078/2079/2080/2081/2082/2083/2084/2085/2086/2087/2088/2089/2090/2091/2092/2093/2094/2095/2096/2097/2098/2099/2100/2101/2102/2103/2104/2105/2106/2107/2108/2109/2110/2111/2112/2113/2114/2115/2116/2117/2118/2119/2120/2121/2122/2123/2124/2125/2126/2127/2128/2129/2130/2131/2132/2133/2134/2135/2136/2137/2138/2139/2140/2141/2142/2143/2144/2145/2146/2147/2148/2149/2150/2151/2152/2153/2154/2155/2156/2157/2158/2159/2160/2161/2162/2163/2164/2165/2166/2167/2168/2169/2170/2171/2172/2173/2174/2175/2176/2177/2178/2179/2180/2181/2182/2183/2184/2185/2186/2187/2188/2189/2190/2191/2192/2193/2194/2195/2196/2197/2198/2199/2200/2201/2202/2203/2204/2205/2206/2207/2208/2209/2210/2211/2212/2213/2214/2215/2216/2217/2218/2219/2220/2221/2222/2223/2224/2225/2226/2227/2228/2229/2230/2231/2232/2233/2234/2235/2236/2237/2238/2239/2240/2241/2242/2243/2244/2245/2246/2247/2248/2249/2250/2251/2252/2253/2254/2255/2256/2257/2258/2259/2260/2261/2262/2263/2264/2265/2266/2267/2268/2269/2270/2271/2272/2273/2274/2275/2276/2277/2278/2279/2280/2281/2282/2283/2284/2285/2286/2287/2288/2289/2290/2291/2292/2293/2294/2295/2296/2297/2298/2299/2300/2301/2302/2303/2304/2305/2306/2307/2308/2309/2310/2311/2312/2313/2314/2315/2316/2317/2318/2319/2320/2321/2322/2323/2324/2325/2326/2327/2328/2329/2330/2331/2332/2333/2334/2335/2336/2337/2338/2339/2340/2341/2342/2343/2344/2345/2346/2347/2348/2349/2350/2351/2352/2353/2354/2355/2356/2357/2358/2359/2360/2361/2362/2363/2364/2365/2366/2367/2368/2369/2370/2371/2372/2373/2374/2375/2376/2377/2378/2379/2380/2381/2382/2383/2384/2385/2386/2387/2388/2389/2390/2391/2392/2393/2394/2395/2396/2397/2398/2399/2400/2401/2402/2403/2404/2405/2406/2407/2408/2409/2410/2411/2412/2413/2414/2415/2416/2417/2418/2419/2420/2421/2422/2423/2424/2425/2426/2427/2428/2429/2430/2431/2432/2433/2434/2435/2436/2437/2438/2439/2440/2441/2442/2443/2444/2445/2446/2447/2448/2449/2450/2451/2452/2453/2454/2455/2456/2457/2458/2459/2460/2461/2462/2463/2464/2465/2466/2467/2468/2469/2470/2471/2472/2473/2474/2475/2476/2477/2478/2479/2480/2481/2482/2483/2484/2485/2486/2487/2488/2489/2490/2491/2492/2493/2494/2495/2496/2497/2498/2499/2500/2501/2502/2503/2504/2505/2506/2507/2508/2509/2510/2511/2512/2513/2514/2515/2516/2517/2518/2519/2520/2521/2522/2523/2524/2525/2526/2527/2528/2529/2530/2531/2532/2533/2534/2535/2536/2537/2538/2539/2540/2541/2542/2543/2544/2545/2546/2547/2548/2549/2550/2551/2552/2553/2554/2555/2556/2557/2558/2559/2560/2561/2562/2563/2564/2565/2566/2567/2568/2569/2570/2571/2572/2573/2574/2575/2576/2577/2578/2579/2580/2581/2582/2583/2584/2585/2586/2587/2588/2589/2590/2591/2592/2593/2594/2595/2596/2597/2598/2599/2600/2601/2602/2603/2604/2605/2606/2607/2608/2609/2610/2611/2612/2613/2614/2615/2616/2617/2618/2619/2620/2621/2622/2623/2624/2625/2626/2627/2628/2629/2630/2631/2632/2633/2634/2635/2636/2637/2638/2639/2640/2641/2642/2643/2644/2645/2646/2647/2648/2649/2650/2651/2652/2653/2654/2655/2656/2657/2658/2659/2660/2661/2662/2663/2664/2665/2666/2667/2668/2669/2670/2671/2672/2673/2674/2675/2676/2677/2678/2679/2680/2681/2682/2683/2684/2685/2686/2687/2688/2689/2690/2691/2692/2693/2694/2695/2696/2697/2698/2699/2700/2701/2702/2703/2704/2705/2706/2707/2708/2709/2710/2711/2712/2713/2714/2715/2716/2717/2718/2719/2720/2721/2722/2723/2724/2725/2726/2727/2728/2729/2730/2731/2732/2733/2734/2735/2736/2737/2738/2739/2740/2741/2742/2743/2744/2745/2746/2747/2748/2749/2750/2751/2752/2753/2754/2755/2756/2757/2758/2759/2760/2761/2762/2763/2764/2765/2766/2767/2768/2769/2770/2771/2772/2773/2774/2775/2776/2777/2778/2779/2780/2781/2782/2783/2784/2785/2786/2787/2788/2789/2790/2791/2792/2793/2794/2795/2796/2797/2798/2799/2800/2801/2802/2803/2804/2805/2806/2807/2808/2809/2810/2811/2812/2813/2814/2815/2816/2817/2818/2819/2820/2821/2822/2823/2824/2825/2826/2827/2828/2829/2830/2831/2832/2833/2834/2835/2836/2837/2838/2839/2840/2841/2842/2843/2844/2845/2846/2847/2848/2849/2850/2851/2852/2853/2854/2855/2856/2857/2858/2859/2860/2861/2862/2863/2864/2865/2866/2867/2868/2869/2870/2871/2872/2873/2874/2875/2876/2877/2878/2879/2880/2881/2882/2883/2884/2885/2886/2887/2888/2889/2890/2891/2892/2893/2894/2895/2896/2897/2898/2899/2900/2901/2902/2903/2904/2905/2906/2907/2908/2909/2910/2911/2912/2913/2914/2915/2916/2917/2918/2919/2920/2921/2922/2923/2924/2925/2926/2927/2928/2929/2930/2931/2932/2933/2934/2935/2936/2937/2938/2939/2940/2941/2942/2943/2944/2945/2946/2947/2948/2949/2950/2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