

REPORT ON MACHINERY.

No. 9555

Port of Hamburg

MON. MAR 11 1907
Received at London Office

No. in Survey held at Flensburg

Date, first Survey 25th July 06 Last Survey 4th March 1907

Book on the Steel S.S. "Schlesien"

(Number of Visits 25)

Gross 5544
Net 3533
Tons

Master Madsen Built at Flensburg By whom built Flensburger Schiffbau Ges. When built 1907

Engines made at Flensburg By whom made Flensburger Schiffbau Ges. when made 1907

Boilers made at Flensburg By whom made Flensburger Schiffbau Ges. when made 1907

Registered Horse Power 507 Owners Norddeutscher Lloyd Port belonging to Bremen

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 Quadruple expansion No. of Cylinders 4 No. of Cranks 4

No. of Cylinders 24, 34, 61, 74 Length of Stroke 54 Revs. per minute 65 Dia. of Screw shaft 15.77 Material of screw shaft Steel

Is the after end of the liner made water tight yes 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 no If two

shafts are fitted, is the shaft lapped or protected between the liners yes Length of stern bush 5.6

Dia. of Tunnel shaft 13.55 as per rule 14.23 Dia. of Crank shaft journals 14.34 as fitted 14.34 Dia. of Crank pin 14.34 Size of Crank webs 21.19 Dia. of thrust shaft under

of Feed pumps 2 Diameter of ditto 4 Stroke 28 Can one be overhauled while the other is at work yes

of Bilge pumps 2 Diameter of ditto 4.4 Stroke 28 Can one be overhauled while the other is at work yes

of Donkey Engines 3 Sizes of Pumps See Specifications No. and size of Suctions connected to both Bilge and Donkey pumps

Engine Room 5-3.5, 1-2, 1-2, 1-2 In Holds, &c. 8-3.5, 1-2, 1-2 In Tanks 13-4

of Bilge Injections 1 sizes 8.75 Connected to condenser, or to circulating pump yes Is a separate Donkey Suction fitted in Engine room & size yes, 3.5

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 none

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

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

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

at pipes are carried through the bunkers stokehold suction How are they protected wood boxes

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

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

Tests of examination of completion of fitting of Sea Connections 241.07 of Stern Tube 142.07 Screw shaft and Propeller 2572.07

the Screw Shaft Tunnel watertight yes Is it fitted with a watertight door yes worked from deck platform

MANUFACTURERS, &c.—(Letter for record S) Manufacturers of Steel Messrs. Thyssen & Co of Muhlheim of Ruhr

Total Heating Surface of Boilers 6551 sq. ft. Is Forced Draft fitted yes No. and Description of Boilers 3 single ended multitubular

Working Pressure 213 lbs Tested by hydraulic pressure to 426 lbs Date of test 26.1.07 No. of Certificate —

Can each boiler be worked separately yes Area of fire grate in each boiler 51 sq. ft. No. and Description of Safety Valves to

each boiler 2 Springload Area of each valve 9.6 sq. in. Pressure to which they are adjusted 213 lbs Are they fitted with easing gear yes

Smallest distance between boilers or uptakes and bunkers or woodwork 20 Mean dia. of boilers 14.5 Length 13.7 Material of shell plates Steel

Thickness 1.4 Range of tensile strength 28-32 tons Are the shell plates welded or flanged — Descrip. of riveting: cir. seams lap, trip, riv.

of seams lap, trip, riv. Diameter of rivet holes in long. seams 1.56 Pitch of rivets 20.5 Lap of plates or width of butt straps 30.7 x 11.8

Percentages of strength of longitudinal joint 108.2% Working pressure of shell by rules 241.5 lbs Size of manhole in shell 16.5 x 12.5

of compensating ring 7.8 x 1.4 No. and Description of Furnaces in each boiler 3, horizontal Material Steel Outside diameter 43.3

Length of plain part 7 Thickness of plates 1.68 Description of longitudinal joint welded No. of strengthening rings none

Working pressure of furnace by the rules 261.4 lbs Combustion chamber plates: Material Steel Thickness: Sides 6.5 Back 6.5 Top 6.5 Bottom 1

Pitch of stays to ditto: Sides 7.7 Back 7.7 Top 7.7 If stays are fitted with nuts or riveted heads both Working pressure by rules 251.7 lbs

Material of stays Steel Diameter at smallest part 1.44 Area supported by each stay 59 sq. in. Working pressure by rules 217 lbs End plates in steam space:

Material Steel Thickness 1.125 Pitch of stays 15 How are stays secured all nuts with washers Working pressure by rules 280.8 lbs Material of stays Steel

Diameter at smallest part 3 Area supported by each stay 225 sq. in. Working pressure by rules 211.1 lbs Material of Front plates at bottom Steel

Thickness 1.06 Material of Lower back plate Steel Thickness 1 Greatest pitch of stays 11 Working pressure of plate by rules 289.6 lbs

Diameter of tubes 2.5 Pitch of tubes 3.75 Material of tube plates Steel Thickness: Front 1.06 Back .9 Mean pitch of stays 7.5

Pitch across wide water spaces 13.6 Working pressures by rules 221.3 lbs Girders to Chamber tops: Material Steel Depth and

Thickness of girder at centre 11 x 1.4 Length as per rule 36.1 Distance apart 7.7 Number and pitch of stays in each 3-7.7

Working pressure by rules 247.6 lbs 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 —

strengthened 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 —

W730-0036 Register Foundation

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 _____ Stayed by _____

Diameter of uptake _____ Thickness of uptake plates _____ Thickness of water tubes _____ Dates of survey _____

SPARE GEAR. State the articles supplied:— 1 set piston springs for each piston, 1 slide rod to fit all valves, 1 air pump rod, 2 1/2 crankpin brasses, 2 1/2 crosshead brasses, 2 top end bolts, 2 bottom end bolts, 2 main bearings bolts, 2 complete pump links, 1 set valves for air pump, 1 set valves for feed donkey, 1 set valves for ballast donkey, 1 set valves for main feed pumps, 1 set valves for bilge pumps, 2 valves and seats for main boiler check valves, 50 condenser tubes and 100 crew glands, 1 set coupling bolts, 2 1/4 main boiler plain tubes, 1/2 set fire bars, 2 springs main safety valves, 1 spring each for cylinder escape valves, 1 link block, 1 eccentric strap coupl., 1 eccentric sheave, 1 centrifugal circulating pump: 1 piston, 1 piston rod, 1 slide valve rod, 1 main main brasses and bolts, 1 pair bottom end brasses and bolts, 1 pair top end brasses and bolts, and a large number of other bolts, studs, nuts and iron.

The foregoing is a correct description,
Flensburger Schiffsbau-Gesellschaft.
 Manufacturer.

Dates of Survey while building

During progress of work in shops - 25/4, 10/5, 29/5, 1/6, 2/6, 3/6, 18/6, 25/6, 2/7, 9/7, 12/7, 14/7, 23/7, 28/7, 1/8, 15/8, 21/8, 24/8, 29/8, 31/8, 1/9, 2/9, 3/9, 10/9, 17/9, 24/9, 30/9, 1/10, 8/10, 15/10, 22/10, 29/10, 5/11, 12/11, 19/11, 26/11, 3/12, 10/12, 17/12, 24/12, 31/12, 7/1, 14/1, 21/1, 28/1, 4/2, 11/2, 18/2, 25/2, 3/3, 10/3, 17/3, 24/3, 31/3, 7/4, 14/4, 21/4, 28/4, 5/5, 12/5, 19/5, 26/5, 2/6, 9/6, 16/6, 23/6, 30/6, 7/7, 14/7, 21/7, 28/7, 4/8, 11/8, 18/8, 25/8, 1/9, 8/9, 15/9, 22/9, 29/9, 6/10, 13/10, 20/10, 27/10, 3/11, 10/11, 17/11, 24/11, 1/12, 8/12, 15/12, 22/12, 29/12, 5/1, 12/1, 19/1, 26/1, 2/2, 9/2, 16/2, 23/2, 30/2, 6/3, 13/3, 20/3, 27/3, 3/4, 10/4, 17/4, 24/4, 1/5, 8/5, 15/5, 22/5, 29/5, 5/6, 12/6, 19/6, 26/6, 3/7, 10/7, 17/7, 24/7, 31/7, 7/8, 14/8, 21/8, 28/8, 4/9, 11/9, 18/9, 25/9, 2/10, 9/10, 16/10, 23/10, 30/10, 6/11, 13/11, 20/11, 27/11, 4/12, 11/12, 18/12, 25/12, 1/1, 8/1, 15/1, 22/1, 29/1, 5/2, 12/2, 19/2, 26/2, 3/3, 10/3, 17/3, 24/3, 31/3, 7/4, 14/4, 21/4, 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