

REPORT ON MACHINERY.

No. 9555

Port of Hamburg

MON. MAR 11 1907

Received at London Office

To, in Survey held at

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

1907

Book.

(Number of Visits 25)on the Steel S. S.SchlesienGross 5544Net 3533When built 1907ter Madsen Built at FlensburgBy whom built Flensburger Schiffbau Ges.when made 1907ines made at FlensburgBy whom made Flensburger Schiffbau Ges.when made 1907ers made at FlensburgBy whom made Flensburger Schiffbau Ges.Port belonging to Bremenistered Horse Power 507Owners Norddeutscher LloydIs Electric Light fitted yesHorse Power as per Section 28 507Is Refrigerating Machinery fitted for cargo purposes no

INES, &c.—Description of Engines

Quadruple ExpansionNo. of Cylinders 4No. of Cranks 4of Cylinders 14, 34, 61, 74Length of Stroke 54Revs. per minute 65

Dia. of Screw shaft

as per rule 15.77Material of Steelhe screw shaft fitted with a continuous liner the whole length of the stern tube yes

Is the after end of the liner made water tight

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

If the liner does not fit tightly at the part

een the bearings in the stern tube, is the space charged with a plastic material insoluble in water and non-corrosive —

If two

s are fitted, is the shaft lapped or protected between the liners —Length of stern bush 5'6"of Tunnel shaft as per rule 13.55Dia. of Crank shaft journals as per rule 14.23Dia. of Crank pin 14 3/4Size of Crank webs 21 1/2

Dia. of thrust shaft under

ers 14 3/4Dia. of screw 19.0Pitch of Screw 20.0No. of Blades 4State whether moveable yesTotal surface 88 sq. ft.of Feed pumps 2Diameter of ditto 4"Stroke 28"Can one be overhauled while the other is at work yesof Bilge pumps 2Diameter of ditto 4 1/4"Stroke 28"Can one be overhauled while the other is at work yesof Donkey Engines 3Sizes of Pumps See Specifications

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

Engine Room 5-32In Hold, 8-32In Tanks 13-4"of Bilge Injections 1sizes 8 1/2"Connected to condenser, or to circulating pumpyesIs a separate Donkey Suction fitted in Engine room & size yes, 3 1/2"all the bilge suction pipes fitted with roses yesAre the roses in Engine room always accessible yesAre the sluices on Engine room bulkheads always accessible noneall connections with the sea direct on the skin of the ship yesAre they Valves or Cocks boththey fixed sufficiently high on the ship's side to be seen without lifting the stokehold plates yesAre the Discharge Pipes above or below the deep water line abovethey each fitted with a Discharge Valve always accessible on the plating of the vessel yesAre the Blow Off Cocks fitted with a spigot and brass covering plate yesat pipes are carried through the bunkers forehold suctionHow are they protected wood boxesall Pipes, Cocks, Valves, and Pumps in connection with the machinery and all boiler mountings accessible at all times yesthe Bilge Suction Pipes, Cocks, and Valves arranged so as to prevent any communication between the sea and the bilges yestes of examination of completion of fitting of Sea Connections 24/1.07of Stern Tube 14/2.07Screw shaft and Propeller 25/2.07the Screw Shaft Tunnel watertight yesIs it fitted with a watertight door yesworked from deck platformMLERS, &c.—(Letter for record S)Manufacturers of Steel Messrs. Thyssen & Co of Muhlheim a/Ruhral Heating Surface of Boilers 6551 sq. ft.Is Forced Draft fitted yesNo. and Description of Boilers 3 single ended multitubularorking Pressure 213 lbsTested by hydraulic pressure to 426 lbsDate of test 26.1.07No. of Certificate —each boiler be worked separately yesArea of fire grate in each boiler 51 sq. ft.

No. and Description of Safety Valves to

boiler 2 SpringloadArea of each valve 9.6 sq. in.Pressure to which they are adjusted 213 lbsAre they fitted with easing gear yesallest distance between boilers or uptakes and bunkers or woodwork 20"Mean dia. of boilers 14 5/8"Length 13'7"Material of shell plates Steelickness 1.4"Range of tensile strength 28-32 tonsAre the shell plates welded or flanged —Descrip. of riveting: cir. seams lap, trip, riv.g. 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 1/2 x 118"

centages of strength of longitudinal joint

rivets 108.2%Working pressure of shell by rules 241.5 lbsSize of manhole in shell 16.5 x 12.5"e of compensating ring 7.8 x 1.4"No. and Description of Furnaces in each boiler 3, horizontalMaterial SteelOutside diameter 43.3"ngth of plain part top 7"Thickness of plates bottom 7"Description of longitudinal joint weldedNo. of strengthening rings noneorking pressure of furnace by the rules 261.4 lbsCombustion chamber plates: Material SteelThickness: Sides 6.5"Back 6.5"Top 6.5"Bottom 1"ch of stays to ditto: Sides 7.7"Back 7.7"Top 7.7"If stays are fitted with nuts or riveted heads bothWorking pressure by rules 251.7 lbsaterial of stays SteelDiameter at smallest part 1.44"Area supported by each stay 59 sq. in.Working pressure by rules 217 lbs

End plates in steam space:

aterial SteelThickness 1.125"Pitch of stays 15"How are stays secured all nuts withWorking pressure by rules 280.8 lbsMaterial of stays Steeliameter at smallest part 3"Area supported by each stay 225 sq. in.Working pressure by rules 311.1 lbsMaterial of Front plates at bottom Steelickness 1.06"Material of Lower back plate SteelThickness 1"Greatest pitch of stays 11"Working pressure of plate by rules 289.6 lbsiameter of tubes 2.5"Pitch of tubes 3.75"Material of tube plates SteelThickness: Front 1.06"Back 9"Mean pitch of stays 7.5"ch across wide water spaces 13.6"Working pressures by rules 221.3 lbsGirders to Chamber tops: Material Steel

Depth and

ickness of girder at centre 11 1/2 x 1.4"Length as per rule 36.1"Distance apart 7.7"Number and pitch of stays in each 3-7.7"orking pressure by rules 247.6 lbsSuperheater or Steam chest; how connected to boiler —

Can the superheater be shut off and the boiler worked

eparately —Diameter —Length —Thickness of shell plates —Material —Description of longitudinal joint —

Diam. of rivet

les —Pitch of rivets —Working pressure of shell by rules —Diameter of flue —Material of flue plates —Thickness —How stayed —stiffened with rings —Distance between rings —Working pressure by rules —End plates: Thickness —How stayed —orking pressure of end plates —Area of safety valves to superheater —Are they fitted with easing gear —Working pressure of end plates —Area of safety valves to superheater —Are they fitted with easing gear —Working pressure of end plates —Area of safety valves to superheater —Are they fitted with easing gear —Working pressure of end plates —Area of safety valves to superheater —Are they fitted with easing gear —Working pressure of end plates —Area of safety valves to superheater —Are they fitted with easing gear —Working pressure of end plates —Area of safety valves to superheater —Are they fitted with easing gear —Working pressure of end plates —Area of safety valves to superheater —Are they fitted with easing gear —Working pressure of end plates —Area of safety valves to superheater —Are they fitted with easing gear —Working pressure of end plates —Area of safety valves to superheater —Are they fitted with easing gear —Working pressure of end plates —Area of safety valves to superheater —Are they fitted with easing gear —Working pressure of end plates —Area of safety valves to superheater —Are they fitted with easing gear —Working pressure of end plates —Area of safety valves to superheater —Are they fitted with easing gear —Working pressure of end plates —Area of safety valves to superheater —Are they fitted with easing gear —Working pressure of end plates —Area of safety valves to superheater —Are they fitted with easing gear —Working pressure of end plates —Area of safety valves to superheater —Are they fitted with easing gear —Working pressure of end plates —Area of safety valves to superheater —Are they fitted with easing gear —Working pressure of end plates —Area of safety valves to superheater —Are they fitted with easing gear —Working pressure of end plates —Area of safety valves to superheater —Are they fitted with easing gear —Working pressure of end plates —Area of safety valves to superheater —Are they fitted with easing gear —Working pressure of end plates —Area of safety valves to superheater —Are they fitted with easing gear —Working pressure of end plates —Area of safety valves to superheater —Are they fitted with easing gear —Working pressure of end plates —Area of safety valves to superheater —Are they fitted with easing gear —Working pressure of end plates —Area of safety valves to superheater —Are they fitted with easing gear —Working pressure of end plates —Area of safety valves to superheater —Are they fitted with easing gear —Working pressure of end plates —Area of safety valves to superheater —Are they fitted with easing gear —Working pressure of end plates —Area of safety valves to superheater —Are they fitted with easing gear —Working pressure of end plates —Area of safety valves to superheater —Are they fitted with easing gear —Working pressure of end plates —Area of safety valves to superheater —Are they fitted with easing gear —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	When made	Where fixed
Made at	By whom made		
Working pressure	tested by hydraulic pressure to	Date of test	No. of Certificate
Valves	No. of Safety Valves	Area of each	Pressure to which they are adjusted
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
Working pressure of shell by rules	Thickness of shell crown plates	Radius of do.	No. of stays to do.
Diameter of furnace Top	Bottom	Length of furnace	Thickness of furnace plates
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 two 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 machine brasses and bolts, 1 pair bottom end brasses and bolts, 1 pair top end brasses and bolts, and a large number of other red bolts, studs, nuts and iron.

The foregoing is a correct description,
Flensburg Schiffsbau-Gesellschaft.

Manufacturer.

Dates of Survey while building	During progress of work in shops—	25/7, 10/8, 29/8, 1/9, 2/10, 3/10, 18/10, 25/10, 3/11, 8/11, 13/11, 18/11, 23/11, 28/11, 7/12, 15/12, 21/12, 28/12, 4/1, 11/1, 18/1, 25/1, 1/2, 8/2, 15/2, 22/2, 29/2, 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, 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, 7/3, 14/3, 21/3, 28/3, 4/4, 11/4, 18/4, 25/4, 2/5, 9/5, 16/5, 23/5, 30/5, 6/6, 13/6, 20/6, 27/6, 4/7, 11/7, 18/7, 25/7, 1/8, 8/8, 15/8, 22/8, 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