

REPORT ON MACHINERY.

No. 9954

Received at London Office

FRI. 25 OCT 1907

Date of writing Report 21/10 1907 When handed in at Local Office 19 Port of Hamburg

No. in Survey held at Teensburg Date, First Survey 27th March Last Survey 19th Dec. 1907
Reg. Book. Steel & Co. "Hansa" (Number of Visits 22) Gross 4213
on the Steel & Co. "Hansa" Tons Net 2628

Master Prohn Built at Teensburg By whom built Teensburger Schiffbau Ges. When built 1907.10
Engines made at Teensburg By whom made Teensburger Schiffbau Ges. when made 1907
Boilers made at Teensburg By whom made Teensburger Schiffbau Ges. when made 1907
Registered Horse Power 473 Owners Deutsch Austral. Dampfschiff. Ges. Port belonging to Hamburg
Nom. Horse Power as per Section 28 473 Is Refrigerating Machinery fitted for cargo purposes no Is Electric Light fitted yes

ENGINES, &c.—Description of Engines Triple Expansion No. of Cylinders 3 No. of Cranks 3
Dia. of Cylinders 27 3/4", 46 1/4", 26 1/2" Length of Stroke 48 Revs. per minute 15 1/2 Dia. of Screw shaft 15 1/2" Material of Steel
Is the 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
in the 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
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 62"
Dia. of Tunnel shaft 13 9/16" as per rule 13 3/4" Dia. of Crank shaft journals 14 1/4" as per rule 14 1/4" Dia. of Crank pin 14 1/6" Size of Crank webs 20 1/2" x 8 1/2" Dia. of thrust shaft under
collars 14 7/16" Dia. of screw 18 1/6" Pitch of Screw 18 1/6" No. of Blades 4 State whether moveable no Total surface 81 sq. ft.
No. of Feed pumps 2 Diameter of ditto 4 3/8" Stroke 30" Can one be overhauled while the other is at work yes
No. of Bilge pumps 2 Diameter of ditto 4 3/8" Stroke 30" Can one be overhauled while the other is at work yes
No. of Donkey Engines 4 Sizes of Pumps see Specifications No. and size of Suctions connected to both Bilge and Donkey pumps
In Engine Room 6-3 1/2", from Tunnel Peak 1-3 1/2", from Tunnel 3-2 1/2" Holds, &c. 10-5 1/2", from Tanks 12-4 1/2" suction.

No. of Bilge Injections 1 sizes 6" Connected to condenser circulating pump yes Is a separate Donkey Suction fitted in Engine room of size 4 1/2-3 1/2"
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 none
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 none How are they protected —
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 21/9.07 of Stern Tube 4/10.07 Screw shaft and Propeller 19/10.07
Is the Screw Shaft Tunnel watertight yes Is it fitted with a watertight door yes worked from cylinder platform

BOILERS, &c.—(Letter for record B) Manufacturers of Steel Krupp, Thyssen & Co.
Total Heating Surface of Boilers 6255 sq. ft. Is Forced Draft fitted yes No. and Description of Boilers 3 single ended multitubular
Working Pressure 180 lbs Tested by hydraulic pressure to 360 lbs Date of test 21.9.07 No. of Certificate —
Can each boiler be worked separately yes Area of fire grate in each boiler 49 sq. ft. No. and Description of Safety Valves 10
each boiler 2 spring load. Area of each valve 11.1 sq. in. Pressure to which they are adjusted 180 lbs Are they fitted with easing gear yes
Smallest distance between boilers or uptakes and bunkers 10" Mean dia. of boilers 13 1/4" Length 12 1/2" Material of shell plates Steel
Thickness 1 1/4" Range of tensile strength 28-32 tons Are the shell plates welded or flanged — Descrip. of riveting: cir. seams lap, trip
long. seams lap, trip Diameter of rivet holes in long. seams 1.4" Pitch of rivets 10.1" Lap of plates or width of butt straps 20.3"
Per centages of strength of longitudinal joint 101.2% Working pressure of shell by rules 180 lbs Size of manhole in shell 16 1/2" x 12.6"
Size of compensating ring 8 1/2" x 1.12" No. and Description of Furnaces in each boiler 3 horizontal Material Steel Outside diameter 42.5"
Length of plain part 2.5" Thickness of plates 1.6" Description of longitudinal joint welded No. of strengthening rings none
Working pressure of furnace by the rules 207 lbs Combustion chamber plates: Material Steel Thickness: Sides .6" Back .6" Top .6" Bottom .6"
Pitch of stays to ditto: Sides 8.1" Back 7.9" Top 8.1" If stays are fitted with nuts or riveted heads both Working pressure by rules 196 lbs
Material of stays Steel Diameter at smallest part 1.5" Area supported by each stay 62 sq. in. Working pressure by rules 227.1 lbs End plates in steam space:
Material Steel Thickness 1" Pitch of stays 15" How are stays secured all riveted Working pressure by rules 199 lbs Material of stays Steel
Diameter at smallest part 3 Area supported by each stay 113 sq. in. Working pressure by rules 314.2 lbs Material of Front plates at bottom Steel
Thickness 1" Material of Lower back plate Steel Thickness .87" Greatest pitch of stays 13.75" Working pressure of plate by rules 86.8 lbs
Diameter of tubes 27.5" Pitch of tubes 3.9" Material of tube plates Steel Thickness: Front 1" Back .94" Mean pitch of stays 7.9"
Pitch across wide water spaces 13.8" Working pressures by rules 216 lbs Girders to Chamber tops: Material Steel Depth and
thickness of girder at centre 10.25" x 1.5" Length as per rule 33.5" Distance apart 7.5" Number and pitch of stays in each 3-8.1"
Working pressure by rules 240.6 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 —
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 Donkey Boiler fitted.

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 _____
 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 Propeller, 1 Propellershaft, 1/3 crankshaft, 2 bolts with nuts for main bearings, 2 bolts with nuts for connecting rod bottom end, 2 bolts with nuts for connecting rod top end, 2/3 brasses for connecting rod bottom end, 1/2 brasses for connecting rod top end, 1 valve spindle for S.P., 1 valve spindle for J.P., 1 set coupling bolts, 1 air pump rod, 1 circulating pump rod, 2 pump links, 1 set valve for circulating pump, 1 set valves for air pump, 1 set springs for S.P. piston, 1 set for J.P. and 1 set for L.P., 1 set springs for S.P. slide valve, 1 set valves and seats for bridge and feed pump, 2 tubes for condenser, 57 screw glands for condenser tubes, 30 tubes for main boilers, 1 spring for main boiler safety valves, a large number of assorted bolts nuts, studs, rivets, and a quantity of assorted iron.

The foregoing is a correct description.

Flensburger Schiffsbau-Gesellschaft.
 Manufacturer.

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