

REPORT ON BOILERS.

No. 7165
MON. SEP 24 1906

Port of Antwerp Received at London Office _____
 No. in Survey held at Seraing & Hoboken Date, first Survey January 26th Last Survey Sept. 12 1906
 (Number of Visits 16) Gross Tons 1619 Net Tons 1060
 Master Markeritz Built at Hoboken By whom built John Cokerill When built 1906
 Engines made at Seraing By whom made John Cokerill when made 1906
 Boilers made at do. By whom made do. do. when made 1906
 Registered Horse Power 262 Owners Soc. Russe d'Assurance et de Transport Port belonging to Odessa

MULTITUBULAR BOILERS—~~MAIN, AUXILIARY OR DONKEY.~~—Manufacturers of Steel John Cokerill & Hyperion & Duisburg
 (Letter for record S) Total Heating Surface of Boilers 527 sq Is forced draft fitted no No. and Description of Boilers One single ended Working Pressure 170 Tested by hydraulic pressure to 340 Date of test 25.6.06
 No. of Certificate 10 Can each boiler be worked separately ✓ Area of fire grate in each boiler 18 sq No. and Description of safety valves to each boiler 2 Spring loaded Area of each valve 3.14 sq Pressure to which they are adjusted 175 lbs
 Are they fitted with easing gear no In case of donkey boilers, state whether steam from main boilers can enter the donkey boiler no
 Smallest distance between boilers or uptakes and bunkers or woodwork 18" Mean dia. of boilers 88 3/8 Length 114"
 Material of shell plates Steel Thickness 3/4 Range of tensile strength 27-32 Are the shell plates welded or flanged ✓
 Descrip. of riveting: cir. seams double long. seams double Diameter of rivet holes in long. seams 29/32 Pitch of rivets 4 1/16
 Lap of plates width of butt straps 10" Per centages of strength of longitudinal joint rivets 80 Working pressure of shell by rules 190 Size of manhole in shell 15 3/4 x 11 3/4 Size of compensating ring 23 7/8 x 3/4 No. and Description of Furnaces in each boiler One Morrison Material steel Outside diameter 41 3/8 Length of plain part 173 Combustion chamber Description of longitudinal joint welded No. of strengthening rings ✓ Working pressure of furnace by the rules 173
 plates: Material Steel Thickness: Sides 9/16 Back 9/16 Top 9/16 Bottom 9/16 Pitch of stays to ditto: Sides 8 Back 8
 Top 8 If stays are fitted with nuts or riveted heads nuts Working pressure by rules 170 Material of stays steel Diameter at smallest part 1.48" Area supported by each stay 640" Working pressure by rules 184 End plates in steam space: Material Steel Thickness 15/16
 Pitch of stays 14 9/16 How are stays secured nuts & washers Working pressure by rules 200 Material of stays steel Diameter at smallest part 2 3/8
 Area supported by each stay 240" Working pressure by rules 210 Material of Front plates at bottom steel Thickness 15/16 Material of Lower back plate steel Thickness 9/16 Greatest pitch of stays 8" Working pressure of plate by rules 170 Diameter of tubes 3"
 Pitch of tubes 4 1/8 Material of tube plates steel Thickness: Front 15/16 Back 5/16 Mean pitch of stays 8 1/2" Pitch across wide water spaces 12 13/16 Working pressures by rules 170 Girders to Chamber tops: Material Steel Depth and thickness of girder at centre 5 1/8 x 2" Length as per rule 21 7/8 Distance apart 8" Number and pitch of Stays in each 2-8"
 Working pressure by rules 225 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— No. _____ Description _____ Manufacturers of steel _____
 Made at _____ By whom made _____ When made _____ Where fixed _____
 Working pressure _____ tested by hydraulic pressure to _____ No. of Certificate _____ Fire grate area _____ Description of safety 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 _____ Per centage of strength of joint Rivets _____ Working pressure of shell by rules _____ Thickness of shell crown plates _____ 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 _____ Diameter of uptake _____ Thickness of uptake plates _____ Thickness of water tubes _____

Stayed by John Cokerill
 The foregoing is a correct description, _____
 Secretary to the Director General, _____ Manufacturer.
 Dates of Survey while building: During progress of work in shops - 1906 January 26, March 13, April 6, 27, June 8, 15.
 During erection on board vessel - June 25, 26, July 10, 11, August 3, 11, 20, 22, Sept. 8, 12.
 Total No. of visits 16.
 Is the approved plan of main boiler forwarded herewith _____
 " " " donkey " " _____ yes.



GENERAL REMARKS (State quality of workmanship, opinions as to class, &c.)

This boiler has been built under Purvey. The materials & workmanship are of good description. It was tested by hydraulic pressure to twice the working pressure & was quite free from leakage. The boiler has been fitted on board in accordance with the Rules. The safety valves have been adjusted under steam to blow at 175 lb per sq in.

[Faint handwritten notes and bleed-through from the reverse side of the page are visible in this section.]

The amount of Entry Fee...	£	:	When applied for,
Special ...	£	:	Sept 19 1906.
Donkey Boiler Fee ...	£	:	When received,
Travelling Expenses (if any) £	:	:	19

H. J. Cornish
 Engineer Surveyor to Lloyd's Register of British and Foreign Shipping.

Committee's Minute **TUES SEP 25 1906 TUES. SEP 25 1906**
 Assigned *see minute on F.E. report.*

Certificate (if required) to be sent to _____

The Surveyors are requested not to write on or below the space for Committee's Minute.

