

REPORT ON BOILERS.

Hpl. No. 12839

Port of *West Hartlepool*Received at London Office **14th MAY 1906**No. in Survey held at *West Hartlepool*Date, first Survey *17th Nov. 1905*Last Survey *9th Feb. 1906*

Reg. Book.

(Number of Visits *38*)101 Supt. on the *Steam Trawler**Cries*Tons } Gross *250*
Net *103*Master *James*Built at *Grimby*By whom built *Cochrane & Sons*When built *1906*Engines made at *Grimby*By whom made *Central Marine & Water*When made *1906*Boilers made at *West Hartlepool*By whom made *Central Marine & Water*When made *1906*Registered Horse Power *96*Owners *Grimby & North Sea & F.C. Ltd* Port belonging to *Grimby*MULTITUBULAR BOILERS—MAIN, AUXILIARY OR DONKEY.—Manufacturers of Steel *J. Spencer & Son*(Letter for record *S*) Total Heating Surface of Boilers *13194 sq ft* Is forced draft fitted *No.* and Description ofBoilers *One Cylindrical* Working Pressure *180 lb* Tested by hydraulic pressure to *360 lb* Date of test *9/2/06*No. of Certificate *3037* Can each boiler be worked separately *Area of fire grate in each boiler 34.7 sq ft* No. and Description ofsafety valves to each boiler *2 Spring loaded* Area of each valve *1.98 sq ft* Pressure to which they are adjusted *180 lb*Are they fitted with easing gear *Yes* In case of donkey boilers, state whether steam from main boilers can enter the donkey boilerSmallest distance between boilers or uptakes and bunkers or woodwork *9 ft* Mean dia. of boilers *12' 6"* Length *10' 0"*Material of shell plates *Steel* Thickness *1 3/32"* Range of tensile strength *22' 20'* Are the shell plates welded or flanged *both*Descrip. of riveting: cir. seams *—* long. seams *all chip steel* Diameter of rivet holes in long. seams *1 1/8"* Pitch of rivets *7 7/8"*Lap of plates or width of butt straps *16 5/8"* Per centages of strength of longitudinal joint *86.0 %* Working pressure of shell byrules *186 lb* Size of manhole in shell *16" x 12"* Size of compensating ring *32" x 28" x 1 1/8"* No. and Description of Furnaces in eachboiler *Two Main* Material *Steel* Outside diameter *48"* Length of plain part *70"* Thickness of plates *1 1/16"*Description of longitudinal joint *Welded* No. of strengthening rings *—* Working pressure of furnace by the rules *180 lb* Combustion chamberplates: Material *Steel* Thickness: Sides *2 1/32"* Back *2 1/32"* Top *2 1/32"* Bottom *1 3/16"* Pitch of stays to ditto: Sides *9 1/4" x 1 1/4"* Back *9" x 1 1/4"*Top *9 1/4" x 1 1/4"* If stays are fitted with nuts or riveted heads *none* Working pressure by rules *180 lb* Material of stays *Steel* Diameter atsmallest part *1 5/8"* Area supported by each stay *9 1/4" x 1 1/4"* Working pressure by rules *239 lb* End plates in steam space: Material *Steel* Thickness *1 1/8"*Pitch of stays *17 1/4" x 1 1/4"* How are stays secured *all nut* Working pressure by rules *180 lb* Material of stays *Steel* Diameter at smallest part *2 29/32"*Area supported by each stay *17 1/4" x 1 1/4"* Working pressure by rules *214 lb* Material of Front plates at bottom *Steel* Thickness *1"* Material ofLower back plate *Steel* Thickness *1 5/16"* Greatest pitch of stays *14"* Working pressure of plate by rules *180 lb* Diameter of tubes *3 1/2"*Pitch of tubes *4 1/2"* Material of tube plates *Steel* Thickness: Front *1"* Back *1 3/16"* Mean pitch of stays *9"* Pitch across widewater spaces *14 1/4"* Working pressures by rules *189 lb* Girders to Chamber tops: Material *Steel* Depth and thickness ofgirder at centre *9" x 1 1/2"* Length as per rule *31 5/8"* Distance apart *8 1/4"* Number and pitch of Stays in each *two 9 1/4"*Working pressure by rules *207 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 rivetholes *—* 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 canenter the donkey boiler *—* Dia. of donkey boiler *—* Length *—* Material of shell plates *—* Thickness *—* Range of tensilestrength *—* 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 crownplates *—* Stays *—* Diameter of uptake *—* Thickness of uptake plates *—* Thickness of water tubes *—*

The foregoing is a correct description,

Mr. C. Borrowman Manufacturer.

Dates of Survey while building { During progress of work in shops - - - } 1905. Nov. 17. 21. 28. 29. 30. Dec. 4. 8. 11. 12. 14. 18. 19. 20. 21. 22. 29. 1906. Jan. 3. 4. 5. 8. 9. 10. 11. 12. 15. 16. 17. 22. 24. 26. 29. 30. 31. Feb. 1. 6. 7. 8. 9.

Total No. of visits *38*Is the approved plan of main boiler forwarded herewith *No*

" " " donkey " " "

W1654-0096

GENERAL REMARKS

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

Workmanship good.

This Main Boiler has been constructed under Special Survey in accordance with the approved Photo Print tested by hydraulic pressure to 360 lbs. and found tight and sound.

It has now been forwarded to Pimby where it will be placed on board a new Steam Tractor building to the order of The Pimby and North Sea Steam Trawling Co.

Certificate (if required) to be sent to

The amount of Entry Fee...	£	:	:	When applied for,
Special	£	3	16	22. 2. 1906
Donkey Boiler Fee ...	£	:	:	When received,
Travelling Expenses (if any) £	:	:	:	13/3/06

James Linn

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

Committee's Minute

FRI, 18 MAY 1906

Assigned

See Minute on Gen. Rpt.

No. 41524



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