Rpt. 5a.

REPORT ON BOILERS.

No. 56606

Received at London Office FRI 7 MAY 1909

Date of writing Report ... 19... When handed in at Local Office 6 - MAY 1909 Port of Newcastle-on-Tyne

No. in Reg. Book. 49 Sup. Survey held at Newcastle. Date, First Survey 2nd Oct. 1908 Last Survey April 27th 1909. (Number of Visits ...)

on the S/S "PATELLA." Tons Gross 5660. Net 3400.

Master ... Built at Newcastle. By whom built Swan Hunter & Wigham Richardson When built 1909.

Engines made at Newcastle. By whom made Wallsend Slipway & Eng Co Ltd. when made 1909.

Boilers made at Newcastle. By whom made Wallsend Slipway & Eng Co Ltd. when made 1909.

Registered Horse Power ~~440~~. Owners Anglo-Saxon Petroleum Co Port belonging to London.

MULTITUBULAR BOILERS ~~MAIN, AUXILIARY OR~~ DONKEY.—Manufacturers of Steel John Spencer & Sons Ltd.

(Letter for record S.) **Total Heating Surface of Boilers** 1095 □ft Is forced draft fitted No. **No. and Description of Boilers** 1. Single End.

Working Pressure 100lbs. Tested by hydraulic pressure to 200lbs. Date of test 30-12-08.

No. of Certificate 7793. Can each boiler be worked separately ✓ **Area of fire grate in each boiler** 32·8 □ft No. and Description of safety valves to each boiler 2 Spring. Area of each valve 8·39 □in Pressure to which they are adjusted 105 lbs.

Are they fitted with easing gear Yes. 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 14". Outside ~~Inside~~ dia. of boilers 10'-6" Length 11'-4"

Material of shell plates S. Thickness 5/8" Range of tensile strength 29-33 ~~Are the shell plates welded or~~ flanged ends.

Descrip. of riveting: cir. seams D. Lap. long. seams Lap 4 Rivets Diameter of rivet holes in long. seams 1" Pitch of rivets 4½"

Lap of plates ~~middle strake~~ 7¼" Per centages of strength of longitudinal joint rivets 95·2. plate 77·8. Working pressure of shell by rules 104 lbs. Size of manhole in shell 16"×12". Size of compensating ring McNeils

No. and Description of Furnaces in each boiler 2 plain Material S. Outside diameter 3'-1". Length of plain part top 6'-9" bottom 6'-6" (1 to each.) Thickness of plates crown 17/32" bottom 17/32"

Description of longitudinal joint Weld. No. of strengthening rings 2 T. Working pressure of furnace by the rules 101 lbs. Combustion chamber plates: Material S. Thickness: Sides 15/32". Back 15/32" Top 15/32" Bottom 5/8" Pitch of stays to ditto: Sides 7½"×8⅝" Back 7¼"×8" Top 7⅜"×8⅝" If stays are fitted with nuts or riveted heads nuts Working pressure by rules 110 lbs. Material of stays S. ~~Diameter~~ area at smallest part 1·45 Area supported by each stay 61·13. Working pressure by rules 190 End plates in steam space: Material S. Thickness 1 1/16" Pitch of stays 15"×23½" How are stays secured D. Nuts Working pressure by rules 115 lbs. Material of stays S. ~~Diameter~~ area at smallest part 5·05 Area supported by each stay 358 □in Working pressure by rules 149 lbs. Material of Front plates at bottom S. Thickness 1 1/16" Material of Lower back plate S. Thickness 1 1/16" Greatest pitch of stays 13½". Working pressure of plate by rules 139 lbs. Diameter of tubes 3". Pitch of tubes 4¼"×4⅛" Material of tube plates S. Thickness: Front 1 1/16" Back ¾" Mean pitch of stays 12¾"×12⅜" Pitch across wide water spaces 14". Working pressures by rules 124 lbs. Girders to Chamber tops: Material S. Depth and thickness of girder at centre 9¼"×1½". Length as per rule 36". Distance apart 7⅜". Number and pitch of Stays in each 3 @ 8⅛" Working pressure by rules 107 lbs. Superheater or Steam chest; how connected to boiler None. 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 ✓

The foregoing is a correct description.

FOR THE WALLSEND SLIPWAY & ENGINEERING CO. LIMITED.

A. Lair Jr. DIRECTOR.

Manufacturer.

Dates of Survey { During progress of work in shops - - } Please see Machy report while building { During erection on board vessel - - - }

Is the approved plan of boiler forwarded herewith Yes.

Total No. of visits

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

This boiler built under Special Survey, materials & workmanship good, examined under steam & safety valves adjusted.

Survey Fee ... ... £ : } When applied for, ... 19...

Travelling Expenses (if any) £ : } When received, ... 19...

See Machinery Report

J. Robinson.

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

DIES. 11 MAY 1909

Committee's Minute

Assigned See minute on attached Mac. Rpt. 56606

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