

# REPORT ON BOILERS.

No. 4313

Received at London Office

MAR 6 1920  
SAT. 6 - MAR. 1920

Writing Report

When handed in at Local Office

12-5-1919 Port of Manchester

Survey held at Leeds

Date, First Survey 4-10-18. Last Survey 3-1-1919

on the Admiralty Drifter Boiler for Drifter "LOP"

(Number of Visits Ten.)

Gross  
Tons  
Net

Built at Lymington By whom built George Courtney & Co.

When built

made at By whom made

When made

made at Leeds

By whom made Messrs. Clayton, Son & Co. Ltd

When made 1919

red Horse Power

Owners

Port belonging to

TUBULAR BOILERS—MAIN, AUXILIARY OR DONKEY.—Manufacturers of Steel J. Spencer & Son Newcastle upon Tyne

Total Heating Surface of Boilers 810 sq. ft. Is forced draft fitted No. and Description of

Boyl. S. Ended. Return tube boiler Working Pressure 180 lbs. Tested by hydraulic pressure to 360 lbs. Date of test 3-1-1918

Certificate 37. Can each boiler be worked separately Area of fire grate in each boiler 30 sq. ft. No. and Description of

valves to each boiler Area of each valve Pressure to which they are adjusted

ey fitted with easing gear In case of donkey boilers, state whether steam from main boilers can enter the donkey boiler

Least distance between boilers or uptakes and bunkers or woodwork Mean dia. of boilers 120.84" Length 9'6"

Material of shell plates Steel Thickness 27/32" Range of tensile strength 28/32 Ton. Are the shell plates welded or flanged flanged

rip. of riveting: cir. seams double long. seams D. butt strapped Diameter of rivet holes in long. seams 15/16" Pitch of rivets 7"

of plates or width of butt straps 1' 1/4" Per centages of strength of longitudinal joint rivets 86.7 plate 86.6 Working pressure of shell by

181 lbs. Size of manhole in shell 12"x16" Size of compensating ring 6"x27/32" No. and Description of Furnaces in each

7-1 two plain. Material steel Outside diameter 3'2" Length of plain part top 6'4 1/2" Thickness of plates crown 1 1/16" bottom 1 1/16"

Description of longitudinal joint lap welded No. of strengthening rings one Working pressure of furnace by the rules 180 lbs. Combustion chamber

Material steel Thickness: Sides 9/16" Back 9/16" Top 9/16" Bottom 9/16" Pitch of stays to ditto: Sides 8'x7 1/4" Back 8'x7 1/2"

8'x7" If stays are fitted with nuts or riveted heads nuts Working pressure by rules 182 lbs. Material of stays steel Area at

Least part 1.48 sq. Area supported by each stay 60 sq. Working pressure by rules 196 lbs. End plates in steam space: Material steel Thickness 7/8"

of stays 14"x14" How are stays secured nuts and washers Working pressure by rules 185 lbs. Material of stays steel Area at smallest part 3.54 sq.

supported by each stay 196 sq. Working pressure by rules 187 lbs. Material of Front plates at bottom steel Thickness 7/8" Material of

er back plate steel Thickness 7/8" Greatest pitch of stays 16 1/2"x12" Working pressure of plate by rules 182 lbs. Diameter of tubes 3 1/4"

of tubes 4 3/8"x4 1/4" Material of tube plates steel Thickness: Front 7/8" Back 1 1/16" Mean pitch of stays 8 3/4"x10 3/8" Pitch across wide

spaces 1' 1/4" Working pressures by rules 185 lbs. Girders to Chamber tops: Material steel Depth and thickness of

his at centre 8'x1 1/8" Length as per rule 29" Distance apart 7" Number and pitch of Stays in each 2 st. 8" P.

Working pressure by rules 191 lbs. Steam dome: description of joint to shell % of strength of joint

meter Thickness of shell plates Material Description of longitudinal joint Diam. of rivet holes

Working pressure of shell by rules Crown plates Thickness How stayed

Number of rivets Working pressure of shell by rules Tested by Hydraulic Pressure to

ERHEATER. Type Date of Approval of Plan

of Test Is a Safety Valve fitted to each Section of the Superheater which can be shut off from the Boiler

Number of Safety Valve Pressure to which each is adjusted Is Easing Gear fitted

CLAYTON SON & CO., LIMITED

The foregoing is a correct description,

Jos. Clayton Manufacturer.

28/11/18.

Is the approved plan of boiler forwarded herewith no.

During progress of work in shops 4/10/18-11/10/18-25/10/18-1/11/18-15/11/18-22/11/18  
During erection on board vessel 6/12/18-13/12/18-3/1/19

Total No. of visits

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

This boiler has been constructed under survey the materials tested to the rules of this Society. The workmanship is good, and the boiler has been tested by hydraulics to 360 lbs per sq. inch, and found tight. The boiler is eligible in our opinion to be classed and to have record of when the mountings have been fitted, and safety valves adjusted under steam to 180 lbs pressure.

Boiler has been stamped for identification:

h: 37  
LLOYD'S TEST.  
360 lbs.  
3-1-1919  
D. 49 J.

Survey Fee £ 4 : 10 : 0 When applied for 1-3-1919

Travelling Expenses (if any) £ : : When received 29-3-1919

A. Campbell J. L. Rabaeey  
Engineer Surveyor to Lloyd's Register of Shipping.

Committee's Minute TUE. 16 MAR. 1920

signed W. S. H. No. 10490

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