

REPORT ON BOILERS.

No. 12394

Received at London Office

TUE 24 FEB. 1920

Date of writing Report

19

When handed in at Local Office

23.2.1920 Port of Aberdeen

No. in
Reg. Book.

Survey held at Aberdeen

Date, First Survey 24.9.19.

Last Survey 21st February 1920.

on the BOILER No. S. fitted in S.S. "Striver". No. 453.

(Number of Visits)

Gross 1590.08
Tons Net 293.30

Master

Built at Aberdeen

By whom built

The J. Guthrie & Co. S.S. Co. When built 1920.

Engines made at

Middlesbrough

By whom made

Richardson, Hutton & Co. Ltd. 1896, Committed by Nelson & Co. Ltd. 1919

Boilers made at

Aberdeen

By whom made

A. Hall & Co. Ltd.

when made

1920.

Registered Horse Power

Owners

Shipping Investments Ltd. (C. H. Pile Mgr.)

Port belonging to

London

MULTITUBULAR BOILERS—MAIN, AUXILIARY OR DONKEY. Manufacturers of Steel S. Colville Sons Ltd.

(Letter for record (S)) Total Heating Surface of Boilers 1440. Is forced draft fitted 720. No. and Description of

Boilers One cyl. mult. single ended Working Pressure 185 180 Tested by hydraulic pressure to 400 lbs. Date of test 12.1.20.

No. of Certificate 980. Can each boiler be worked separately Area of fire grate in each boiler 48# No. and Description of

safety valves to each boiler Two direct spring Area of each valve 5.93 Pressure to which they are adjusted 187 lbs

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

Smallest distance between boilers or uptakes and bunkers or woodwork About 12" INSIDE. Mean dia. of boilers 13.9" Length 10.8"

Material of shell plates S. Thickness 1.64" Range of tensile strength 28-32 Are the shell plates welded or flanged 720.

Descrip. of riveting: cir. seams d. 7/16" long. seams dble straps Diameter of rivet holes in long. seams 1 1/4" Pitch of rivets 8 1/8" 4 1/2"

Lap of plates or width of butt straps 18 3/8" x 1 1/8" Per centages of strength of longitudinal joint rivets 85.4 Working pressure of shell by

rules 206.6 Size of manhole in shell 16" x 12" Size of compensating ring In Mel. 376. No. and Description of Furnaces in each

boiler 3. plain Material S. Outside diameter 40" Length of plain part top 6.62" Thickness of plates crown 1 1/8" bottom 1 1/16"

Description of longitudinal joint weld. No. of strengthening rings none. Working pressure of furnace by the rules 226. Combustion chamber

plates: Material S. Thickness: Sides 3/4" Back 23/32" Top 3/4" Bottom 3/4" Pitch of stays to ditto: Sides 10" x 8" Back 9 3/8" x 8 3/4"

Top 11" x 8" If stays are fitted with nuts or riveted heads nuts. Working pressure by rules 214.2 Material of stays S. Diameter at

smallest part 3/4" Area supported by each stay 82.2 Working pressure by rules 224.2 End plates in steam space: Material S. Thickness 1 1/32"

Pitch of stays 18 1/2" x 18" How are stays secured d. 7/16" Working pressure by rules 211.1 Material of stays S. Diameter at smallest part 5/4"

Area supported by each stay 333. Working pressure by rules 234.2 Material of Front plates at bottom S. Thickness 1 5/16" Material of

Lower back plate S. Thickness 1 5/16" Greatest pitch of stays 13 3/4" x 9 1/2" Working pressure of plate by rules 214.6 Diameter of tubes 5 1/2" ext.

Pitch of tubes 4 3/8" x 4 3/8" Material of tube plates S. Thickness: Front 1 5/16" x 3/4" Back 1 5/16" Mean pitch of stays 9 3/4" Pitch across wide

water spaces 14" Working pressures by rules F. 315. B. 288.8 Girders to Chamber tops: Material S. Depth and thickness of

girder at centre 11" x 1 3/4" Length as per rule 36 3/32" Distance apart 11" Number and pitch of Stays in each three. 8"

Working pressure by rules 200.9 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

FOR ALEXANDER HALL & CO., LTD.

The foregoing is a correct description,

A. G. G. G.

SECRETARY.

Manufacturer.

Dates
of Survey
while
buildingDuring progress of
work in shops - - -
During erection on
board vessel - - -1919. Sep. 24. Oct. 2. 4. 28. Nov. 10. 15. Dec. 2. 6. 13. 23. 30.
1920. Jan. 8. 12. 15. 20. 28. Feb. 4. 7. 19. 26.

Is the approved plan of boiler forwarded herewith

yes. See 19
9/3/20

Total No. of visits 13

GENERAL REMARKS

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

This boiler has been constructed under Special Survey in accordance with the Secretary's letters, the Rules, & approved plan: the material & workmanship are good. On completion the boiler was tested by hyd. press. to 400 lbs per sq. inch & found satisfactory. It has now been fitted on board the above named vessel & tried under steam with satisfactory results. The safety valves have been adjusted to the reduced W.P. of 185 lbs per sq. inch for which press. the engines are suitable. For recommendation of class, See Machinery Report Indb. No. 10524.

Survey Fee ... £ 4 : 16 :

When applied for, 23.2.1920.

Travelling Expenses (if any) £ :

When received, 5/3/1920.

Ridley Yowell & N. Wilson
Engineer Surveyor to Lloyd's Register of British and Foreign Shipping.

Committee's Minute

FRI. 5-MAR. 1920

Assigned

See p. 1st. attached



Lloyd's Register
Foundation

009139-009143-0309