

REPORT ON BOILERS.

No. 51479.

30 JAN 1942

Received at London Office

Date of writing Report

19

When handed in at Local Office

27 JAN 1942

Port of HULL.

No. in Survey held at HULL.

Reg. Book.

Date First Survey

30. 1. 40

Last Survey

31. 12. 19 41

(Number of Visits)

Gross

859

Net

362

on the S.S.

EMPIRE. BOY.

Built at GOOLE.

By whom built Messrs. the Goole Shipbuilding & Repairing Co.

Yard No. 361. When built 1941. 12

Engines made at HULL

By whom made Messrs. Angus & Smith Ltd

Engine No. 692. When made 1941. 12

Boilers made at HULL.

By whom made Messrs. Angus & Smith Ltd

Boiler No. 692. When made 1941. 12

Nominal Horse Power 153.6.

Owners

Port belonging to

MULTITUBULAR BOILERS—MAIN, AUXILIARY, OR DONKEY.

Manufacturers of Steel Appleby Frodingham Steel Co. Ltd. & Colville.

(Letter for Record)

S

Total Heating Surface of Boilers 2400.

Is forced draught fitted Yes.

Coal or Oil fired Oil

No. and Description of Boilers One S.B.

Working Pressure 200 lb./sq. in.

Tested by hydraulic pressure to 350 Date of test 8/4/41. No. of Certificate 4114. Can each boiler be worked separately

Area of Firegrate in each Boiler Oil Fired. No. and Description of safety valves to each boiler 2 - Spring loaded

Area of each set of valves per boiler {per Rule 17.45. 13.93. Pressure to which they are adjusted 200. Are they fitted with easing gear {as fitted 19.24.

In case of donkey boilers, state whether steam from main boilers can enter the donkey boiler NONE.

Smallest distance between boilers or uptakes and bunkers or woodwork 6'-0".

Is oil fuel carried in the double bottom under boilers No.

Smallest distance between shell of boiler and tank top plating None.

Is the bottom of the boiler insulated

No.

Largest internal dia. of boilers 14'-9 3/8" Length 10'-10 3/16" Shell plates: Material S.M. Steel Tensile strength 29-30 ton/10"

Thickness 1 5/16". Are the shell plates welded or flanged No.

Description of riveting: circ. seams {end D.R. Cap. {inter.

long. seams T.R.-D.B.S. Diameter of rivet holes in {circ. seams 1 5/16" {long. seams 1 5/16". Pitch of rivets 3 3/4" 8 1/2".

Percentage of strength of circ. end seams {plate 64.9. {rivets 43-56.

Percentage of strength of circ. intermediate seam {plate 84.5. {rivets 90.1.

Percentage of strength of longitudinal joint {plate 84.5. {rivets 90.1. {combined 87.15.

Thickness of butt straps {outer 1 1/8" {inner 1 1/8" No. and Description of Furnaces in each Boiler 3. C.f. Deighton Section

Material Steel. Tensile strength 26-30 ton/10". Smallest outside diameter 3'-7 1/4".

Length of plain part {top 7'8" {bottom 7'8" Thickness of plates {crown 7'8" {bottom 7'8". Description of longitudinal joint Welder

Dimensions of stiffening rings on furnace or c.c. bottom End plates in steam space: Material S.M. Steel Tensile strength 26-30 ton/10". Thickness 1 3/16". Pitch of stays 1'-8" x 1'-6".

How are stays secured Nuts & washers inside out.

Tube plates: Material {front S.M. Steel {back do. Tensile strength {26-30 ton/10" {26-30 ton/10". Thickness {1 5/16" {7/8".

Mean pitch of stay tubes in nests 7 3/8" 7 1/16" Pitch across wide water spaces 13 1/2"

Girders to combustion chamber tops: Material S.M. Steel Tensile strength 29-33 ton/10". Depth and thickness of girder at centre 9 1/4" x 7 3/8" double Length as per Rule 34". Distance apart 9" 10" centre No. and pitch of stays

in each 3 @ 8' pitch. Combustion chamber plates: Material S.M. Steel Tensile strength 26-30 ton/10". Thickness: Sides 23/32". Back 1 1/16". Top 23/32". Bottom 23/32".

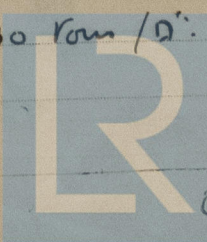
Pitch of stays to ditto: Sides 9 1/2" x 8". Back 9 1/2" x 8 1/2". Top 9" x 8". Are stays fitted with nuts or riveted over Nuts.

Front plate at bottom: Material S.M. Steel Tensile strength 26-30 ton/10". Thickness 1 5/16". Lower back plate: Material S.M. Steel Tensile strength 26/30. Thickness 7/8".

Pitch of stays at wide water space 13 1/2" x 8 1/2". Are stays fitted with nuts or riveted over Nuts.

Main stays: Material Steel Tensile strength 28-32 ton/10". Diameter {At body of stay, 3 1/4" dia. {Over threads 3 1/4". No. of threads per inch 6.

Screw stays: Material Steel Tensile strength 26/30 ton/10". Diameter {At turned off part, 1 3/8" {Over threads 1 3/8". No. of threads per inch 9.



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