

REPORT ON BOILERS.

No. 18238

6 - MAY 1942

Received at London Office

- 5 FEB 1942

Date of writing Report 4/2/1942 When handed in at Local Office 4/2/1942 Port of WEST HARTLEPOOL

Date, First Survey 10th October, 1941, Last Survey 30th January 1942
No. in Survey held at WEST HARTLEPOOL (Number of Visits 14) Gross 571
Book. Tons Net 167on the H.M.T. YES TOR
Built at Beverley By whom built Cook, Wella & Grinnell Ltd Yard No. 686 When built 1942-4
Engines made at Hull By whom made C. D. Holmes & Co Engine No. 1602 When made do.
Boilers made at West Hartlepool By whom made Central Marine Engine Works Boiler No. R349 When made 1942.
Nominal Horse Power 156. Owners The Admiralty Port belonging to

MULTITUBULAR BOILERS—MAIN, AUXILIARY, OR DONKEY.

Manufacturers of Steel Messrs. Colvilles, Ltd. Glasgow. (Letter for Record S. ✓)
Total Heating Surface of Boilers 2358 sq. ft. Is forced draught fitted Coal or Oil fired Coal. ✓
No. and Description of Boilers 1 Single ended multitubular Working Pressure 220 lbs. ✓
Tested by hydraulic pressure to 380 lbs. Date of test 30.1.42 No. of Certificate 3957 Can each boiler be worked separately ✓
Area of Firegrate in each Boiler 63 sq. ft. No. and Description of safety valves to each boiler 2 - Spring loaded. ✓
Area of each set of valves per boiler {per Rule 16.15 ✓ Pressure to which they are adjusted 220 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 12" Is oil fuel carried in the double bottom under boilers No ✓
Smallest distance between shell of boiler and tank top plating ✓ Is the bottom of the boiler insulated No ✓
Largest internal dia. of boilers 15'-6" Length 11'-0" Shell plates: Material Steel Tensile strength 31-35 tons ✓
Thickness 1 1/2" Are the shell plates welded or flanged No Description of riveting: circ. seams {end D.R. LAP. ✓
Long. seams TR Double butt straps Diameter of rivet holes in {circ. seams 1 1/2" ✓ Pitch of rivets {3 3/4" ✓
Percentage of strength of circ. end seams {plate 62.6 ✓ rivets 43.7 ✓ Percentage of strength of circ. intermediate seam {plate 84.66 ✓ rivets 85.67 ✓
Percentage of strength of longitudinal joint {plate 84.66 ✓ rivets 85.67 ✓ combined 86.47 ✓
Thickness of butt straps {outer 1 3/32" ✓ inner 1 1/32" No. and Description of Furnaces in each Boiler 3 Corrugated Deighton section ✓
Material Steel Tensile strength 26-30 tons ✓ Smallest outside diameter 3'-9 1/2" ✓
Length of plain part {top Thickness of plates {crown 1 1/16" ✓ Description of longitudinal joint welded. ✓
Dimensions of stiffening rings on furnace or c.c. bottom ✓
End plates in steam space: Material Steel Tensile strength 26-30 tons ✓ Thickness 1 1/32" ✓ Pitch of stays 18 3/4" x 18 3/4" ✓
How are stays secured Double nuts and washers. ✓
Tube plates: Material {front Steel ✓ Tensile strength {26-30 tons ✓ Thickness {1 1/16" ✓
Mean pitch of stay tubes in nests 9 1/4" x 9" 10 1/2" Pitch across wide water spaces 14 1/2" ✓
Girders to combustion chamber tops: Material Steel Tensile strength 29-33 tons ✓ Depth and thickness of girder
at centre 9 1/2" x 1 3/4" 2-3/8" length as per Rule 2'-9 1/32" ✓ Distance apart 9 1/4" ✓ No. and pitch of stays
in each 3 @ 7 1/8" ✓
Combustion chamber plates: Material Steel ✓
Tensile strength 26-30 tons ✓ Thickness: Sides 23/32" ✓ Back 1 1/16" ✓ Top 1 1/16" ✓ Bottom 1 1/16" ✓
Pitch of stays to ditto: Sides 9 1/2" x 8 1/4" ✓ Back 9" x 8 1/4" ✓ Top 9 1/4" x 7 3/8" ✓ Are stays fitted with nuts or riveted over Nuts. ✓
Front plate at bottom: Material Steel ✓ Tensile strength 26-30 tons ✓ Thickness 29/32" ✓
Thickness 1 1/16" Lower back plate: Material Steel ✓ Tensile strength 26-30 tons ✓ Thickness 29/32" ✓
Pitch of stays at wide water space 14 1/2" x 9" ✓ Are stays fitted with nuts or riveted over Nuts. ✓
Main stays: Material Steel ✓ Tensile strength 28-32 tons ✓
Diameter {At body of stay, No. of threads per inch 6 ✓
Over threads 3 1/2" ✓
Screw stays: Material Steel ✓ Tensile strength 26-30 tons ✓
Diameter {At turned off part, No. of threads per inch 9. ✓
Over threads 1 3/4" ✓

Are the stays drilled at the outer ends Yes ✓

Margin stays: Diameter { At turned off part, 2" ✓
or
Over threads

No. of threads per inch 9 ✓

Tubes: Material L.W. IRON External diameter { Plain 3 1/4" ✓
Stay 3 1/4" ✓ Thickness { 8.5 SWG ✓
5 1/8" ✓ 1 1/16" ✓ No. of threads per inch 9 ✓

Pitch of tubes 4 5/8" x 4 1/2" Manhole compensation: Size of opening

shell plate Section of compensating ring No. of rivets and diameter of rivet holes

Outer row rivet pitch at ends Depth of flange if manhole flanged Steam Dome: Material Steel ✓

Tensile strength 26-30 tons Thickness of shell 3/4" ✓ Description of longitudinal joint S.R. LAP ✓

Diameter of rivet holes 1 1/32" Pitch of rivets 2 1/4" ✓ Percentage of strength of joint { Plate 54 ✓
Rivets 43.8 ✓

Internal diameter 2'-9" Thickness of crown 7/8" ✓ No. and diameter of stays 2 @ 2 3/8" ✓ Inner radius of crown 7/8" flat ✓

How connected to shell Double rivets ✓ Size of doubling plate under dome 4'-11 1/4" DIA 1 1/32" THICK ✓ Diameter of rivet holes and pitch of rivets in outer row in dome connection to shell 1 7/16" x 4" 10 1/4" u. double ✓

Type of Superheater

Number of elements Material of tubes Manufacturers of { Tubes
Steel forgings
Steel castings
Internal diameter and thickness of tubes

Material of headers Tensile strength Thickness Can the superheater be shut off and the boiler be worked separately

Area of each safety valve Is a safety valve fitted to every part of the superheater which can be shut off from the boiler

Pressure to which the safety valves are adjusted Are the safety valves fitted with easing gear

tubes forgings and castings and after assembly in place Hydraulic test pressure: Are drain cocks or valves fitted to free the superheater from water where necessary

Have all the requirements of Sections 14 to 22 inclusive for boilers been complied with

The foregoing is a correct description,
for THE CENTRAL MARINE ENGINEERS,
(INC. CORP. & CO. LTD.) Manufacturer.

Dates of Survey { During progress of work in shops - - 1941. Oct. 18-28 Nov. 11-21 Dec. 4-10-29-31
while building { During erection on board vessel - - - 1942. Jan. 8-9-12-14-24-30.

Are the approved plans of boiler and superheater forwarded herewith (If not state date of approval.)

Total No. of visits 14

Is this Boiler a duplicate of a previous case yes ✓ If so, state Vessel's name and Report No. R347 RPTN° 18219

GENERAL REMARKS (State quality of workmanship, opinions as to class, &c.) This boiler has been constructed under special survey - and in accordance with the approved plans for a working pressure of 220 lbs per square inch. The materials and workmanship have been found good. Upon completion the boiler was tested in the presence of the undersigned by a hydraulic pressure of 380 lbs per square inch, showed no signs of weakness and was found tight and sound in every respect at that pressure. This boiler is to fitted in class "B.D. Holmes, ex 1602.

Survey Fee ... £ 15 : 14 : 0 When applied for, 4/2/42
Travelling Expenses (if any) £ : : When received, 19

Arthur H. Oxford.
Engineer Surveyor to Lloyd's Register of Shipping.

Committee's Minute

Assigned

FRI. 15 MAY 1942

See Hul 2.C. 51593



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Lloyd's Register Foundation

Rpt. 13.

REF

Date of writing Report.....

No. in Survey held Reg. Book.

on the

Built at Deer

Owners He

Electrical Installation

Is vessel fitted for

Have plans been submitted

Heating 110 Pot

has the governing be

trip switch as per R

if not compound w

arranged to run in

Poshee

test for machines

of the generators

near unprotected

injury and dam

contact Gr.

are they in acc

and oil Gr.

material is us

semi-insulatin

Is the constr

to pilot and

side of switc

and for ea

Are comp

ammeter

equaliser