

REPORT ON BOILERS.

No. 63731

Received at London Office

19 FEB 1958

of writing Report 30/1/58 When handed in at Local Office 19 Port of H U L L.

Survey held at H U L L. Date, First Survey 7 11 57 Last Survey 20 1 19 58

9573 on the Stm. Tlr. "MARGARET WICKS" (Number of Visits 8) Tons { Gross Net

at Beverley By whom built Cook, Welton & Gemmell, Ltd. Yard No. When built 1948

ines made at Hull By whom made Charles D. Holmes & Co. Ltd. Engine No. When made 1948

placement Hull By whom made Charles D. Holmes & Co. Ltd. Boiler No. 1911 When made 1957

ers made at Hull By whom made Charles D. Holmes & Co. Ltd. Port belonging to Fleetwood

as per Rule Owners Boston Deep Sea Fisheries Ltd.

MULTITUBULAR BOILERS—MAIN, ~~HEATING~~ OR ~~DONKEY~~

Manufacturers of Steel Appleby-Frodingham Steel Company, Scunthorpe, Lincs.

Heating Surface of Boilers 1850 sq. ft. Of ~~Superheaters~~

for Register Book 1850 $\frac{16}{16}$ Is forced draught fitted Yes Coal or Oil fired Oil ☒

and Description of Boilers One - Single Ended - Cylindrical - Multitubular Working Pressure 215 $\frac{16}{16}$

ed by hydraulic pressure to 375 $\frac{16}{16}$ Date of test 17.1.58 No. of Certificate 4446 ~~Each boiler is worked separately~~

~~of pressure in each boiler~~ No. and Description of safety valves to each boiler One - 3" IHL Double Valve

of each set of valves per boiler { per Rule Approved Pressure to which they are adjusted 215 lb/sq. inch Are they fitted with easing gear Yes ☒

~~of donkey boilers, state whether steam from main boilers can enter the donkey boiler~~

Test distance between boilers or uptakes and bunkers or woodwork - Is oil fuel carried in the double bottom under boilers -

Test distance between shell of boiler and tank top plating - Is the bottom of the boiler insulated -

Test internal dia. of boilers 14'-3.5/16" Length 10'-8" outside Shell plates: Material O.H. Steel Tensile strength 30-34 tons/sq. in.

~~of boiler plates, state whether they are welded or flanged~~ Thickness 1.11/32" Are the shell plates welded or flanged No Description of riveting: circ. seams end D.R. Lap ☒

seams T.R.D.B. Strap Diameter of rivet holes in { circ. seams 1 3/8" long. seams 1 3/8" Pitch of rivets { 3 3/8" 9 1/8"

centage of strength of circ. end seams { plate 63.3% rivets 46.7% ~~Percentage of strength of circ. end seams~~ { plate 84.93% rivets 87/10%

centage of strength of longitudinal joint { plate 87.27% rivets 87/10% combined 87.27%

er Thickness of butt straps { outer 1.1/32" inner 1.5/32" No. and Description of Furnaces in each Boiler Three (Deighton type Corrugations)

aterial O.H. steel Tensile strength 26-30 tons sq. inch Smallest outside diameter 3'-5 3/4"

lbs gth of plain part { top 5 1/2" bottom 5 1/2" Thickness of plates 5 1/2" Description of longitudinal joint Welded ☒

out ~~of stay tubes, state whether they are welded or riveted over~~

plates in steam space: Material O.H. steel Tensile strength 26-30 tons/sq. in. Thickness 1.3/16" Pitch of stays 17 1/2"x20" 18 1/2"x19"

are stays secured Nutted each side of end Plates, 11 1/2" dia. x 15/16" thick loose washers fitted on outside.

e plates: Material { front O.H. steel Tensile strength 26-30 tons/sq. inch Thickness 15/16" back O.H. steel Tensile strength 26-30 tons/sq. inch Thickness 7/8"

n pitch of stay tubes in nests 11 1/2" Pitch across wide water spaces 14"

lers to combustion chamber tops: Material O.H. steel Tensile strength 29-33 tons sq. inch Depth and thickness of girder

entre 10" x 7" (Double) 2 Centre 2'-8.29/32" Distance apart 10" No. and pitch of stays

ach Three 1 1/2" dia. 8" Pitch Combustion chamber plates: Material O.H. steel

ile strength 26-30 tons sq. inch Thickness: Sides 23/32" Back 23/32" Top 23/32" Bottom 25/32"

of stays to ditto: Sides 9 3/4"x8 1/2" 8"x8 1/2" Wing 8 1/2"x9 1/2" Centre 8 1/2"x9 1/2" Are stays fitted with nuts or riveted over Nuts

at plate at bottom: Material O.H. steel Tensile strength 26-30 tons/sq. inch

tness 15/16" Lower back plate: Material O.H. steel Tensile strength 26-30 tons/sq. inch Thickness 7/8"

of stays at wide water space 14" Are stays fitted with nuts or riveted over Nuts ☒

stays: Material O.H. steel Tensile strength 28-32 tons/sq. inch

eter { At body of stay 3 1/2" No. of threads per inch 8 Over threads 3 1/2"

w stays: Material O.H. steel Tensile strength 26-30 tons/sq. inch

eter { At body of stay 1 3/4" No. of threads per inch 10 Over threads 1 3/4"

Are the stays drilled at the outer ends..... No Margin stays: Diameter { At turned off part..... 2" 2 1/8" }
No. of threads per inch.....
Tubes: Material O.H. steel External diameter { Plain..... 3 1/2" } Thickness 8 W.G. { Stay..... 3 1/2" } No. of threads per inch 9
Pitch of tubes Centre 4 7/8" x 4 7/8"; Wings 4 7/8" x 4 7/8" (Longitudinal) Manhole compensation: Size of opening in
shell plate 16" x 12" Section of compensating ring 2' - 11 1/2" x 1.11 1/32" rivets and diameter of rivet holes 122, 1 3/8"
P.C.D. 4' - 5 1/4" Depth of flange if manhole flanged 3 1/4" Steam Dome: Material O.H. steel
Tensile strength 26-30 tons/sq. in Thickness of shell 3/4" Description of longitudinal joint S.R. Lap
Diameter of rivet holes 1.11/32" Pitch of rivets 2 1/4" Percentage of strength of joint { Plate..... 54% }
Internal diameter 2' - 9" Thickness of crown 7/8" { Rivets..... 43.8% }
stays Two 2 1/4" dia. Inner radius of crown Flat No. and diameter of
How connected to shell S.R. Lap Size of doubling plate under dome 4' - 9 1/2" x 1.11/32" thick Diameter of rivet holes and pitch
of rivets in outer row in dome connection to shell 1 3/8" x 3' - 9" P.C.D.

Type of Superheater

Manufacturers of

Number of elements..... Material of tubes..... Internal diameter and thickness of tubes.....
Material of headers..... Tensile strength..... Thickness..... Can the superheater be shut off and
the boiler be worked separately..... Is a safety valve fitted to every part of the superheater which can be shut off from the boiler.....
Area of each safety valve..... Are the safety valves fitted with easing gear.....
Pressure to which the safety valves are adjusted..... Hydraulic test pressure:
tubes..... forgings and castings..... and after assembly in place..... 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..... Yes

The foregoing is a correct description.
P. PRO. CHARLES D. HOLMES & CO., LTD.

Manufacturer.

Dates of Survey { During progress of work in shops - - 1957: Nov. 7th, Dec. 10, 31st. } Are the approved plans of boiler and superheater forwarded herewith.....
while building { During erection on board vessel - - 1958: Jan. 2nd, 14, 15, 17, 29th. } (If not state date of approval.)
Total No. of visits..... 8

Is this Boiler a duplicate of a previous case..... Yes If so, state Vessel's name and Report No. Replacement for s.t. "MARGARET WICKS".

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

This boiler which has been constructed under Special Survey in accordance with the Rules, approved plans and Secretary's letters, material and workmanship being good, is eligible in our opinion, to be classed with record MBBS 1,58 (New), 215 lbs/sq. inch, when satisfactorily installed in the above named vessel, safety valves adjusted and accumulation tests carried out.

Survey Fee ... £ 28 : 10 : - } When applied for.....
Travelling Expenses (if any) £ : : } When received.....

Engineer Surveyor to Lloyd's Register of Shipping.

Committee's Minute.....

Assigned.....



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Foundation