

REPORT ON BOILERS.

No. 90551.

Received at London Office 25 AUG 1926

Date of writing Report 1926 When handed in at Local Office 12/8/26 Port of Liverpool

No. in Reg. Book. Survey held at GLASSON DOCK. Date, First Survey JUNE 17th Last Survey JULY 9th 1926

on the S.S. "CREEK FISHER" (Number of Visits 6) Tons { Gross 129. Net 329.

Master Built at LEKKERKERK. By whom built J. VAN. DUIJVENDIJK. Yard No. When built 1918

Engines made at BOLNES. By whom made BOELE'S SCHIPS & MCH Engine No. When made 1918.

Boilers made at - DITTO - By whom made DITTO. Boiler No. When made 1918.

Nominal Horse Power Owners J. FISHER & SON. Port belonging to LANCASTER

MULTITUBULAR BOILERS—MAIN, AUXILIARY, OR DONKEY.

Manufacturers of Steel (Letter for Record S.)

Total Heating Surface of Boilers 2087 SQ FEET. Is forced draught fitted No. Coal or Oil fired COAL.

No. and Description of Boilers TWO CYLINDRICAL MULTITUBULAR. Working Pressure 185 LBS.

Tested by hydraulic pressure to Date of test No. of Certificate Can each boiler be worked separately YES

Area of Firegrate in each Boiler 35 sqft. No. and Description of safety valves to each boiler TWO, SPRING LOADED

Area of each set of valves per boiler {per Rule 6.825 sq. ins. as fitted 7.49 sq. ins. Pressure to which they are adjusted 185 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 6 FEET. Is oil fuel carried in the double bottom under boilers

Smallest distance between shell of boiler and tank top plating Is the bottom of the boiler insulated No.

Largest internal dia. of boilers 9'-10" Length 10'-6" Shell plates: Material STEEL Tensile strength

Thickness 63/64 Are the shell plates welded or flanged No. Description of riveting: circ. seams {end DOUBLE inter. 3 3/4" long. seams TREBLE. 2 1/2 Diameter of rivet holes in {circ. seams 1 1/4" long. seams 1" Pitch of rivets { 6.73"

Percentage of strength of circ. end seams {plate 66.67. rivets 65.18 Percentage of strength of circ. intermediate seam {plate 85.15 rivets 91.83 Working pressure of shell by Rules 174.6 LBS/SQ. INCH.

Percentage of strength of longitudinal joint {plate 85.15 rivets 91.83 combined 67.02.

Thickness of butt straps {outer 45/64 inner 53/64 No. and Description of Furnaces in each Boiler TWO, CORRUGATED, 2 of.

Material STEEL Tensile strength Smallest outside diameter 34.149"

Length of plain part {top bottom Thickness of plates {crown 33/64 bottom 33/64 Description of longitudinal joint WELDED

Dimensions of stiffening rings on furnace or c.c. bottom Working pressure of furnace by Rules 215.7 LBS.

End plates in steam space: Material STEEL Tensile strength Thickness 53/64 Pitch of stays 13" x 14 1/8"

How are stays secured NUTS AND RIVETED WASHERS OUTSIDE. Working pressure by Rules 199.27 LBS.

Tube plates: Material {front back STEEL Tensile strength Thickness { 3 1/4"

Mean pitch of stay tubes in nests 10 1/2" Pitch across wide water spaces 14 1/8" Working pressure {front 223 LBS back 185.8 LBS

Girders to combustion chamber tops: Material STEEL Tensile strength Depth and thickness of girder

at centre 6.9" x 5/8" x 2 Length as per Rule 22 1/4" Distance apart 7.087" No. and pitch of stays

in each Two At 7.087" Working pressure by Rules 295.6 LBS. Combustion chamber plates: Material STEEL Tensile strength

Thickness: Sides 19/32 Back 19/32 Top 19/32 Bottom 23/32

Pitch of stays to ditto: Sides 6.69" x 7.087" Back 7.285" x 7.874" Top 7.087" x 7.087" Are stays fitted with nuts or riveted over NUTS INSIDE CR. RIVETED OUTSIDE.

Working pressure by Rules 256 LBS. Front plate at bottom: Material STEEL Tensile strength

Thickness 53/64 Lower back plate: Material STEEL Tensile strength Thickness 53/64

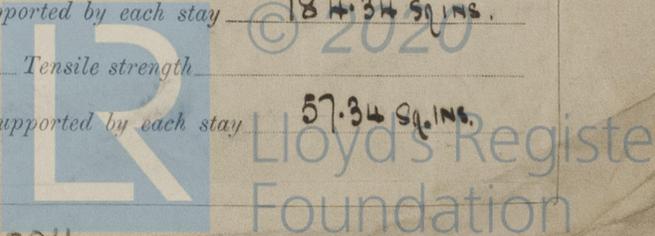
Pitch of stays at wide water space 12.6" x 7.874" Are stays fitted with nuts or riveted over NUTS.

Working Pressure 349 LBS. Main stays: Material STEEL Tensile strength

Diameter {At body of stay, 2 1/4" or Over threads No. of threads per inch 10 Area supported by each stay 184.34 SQ. INS.

Working pressure by Rules 233.9 LBS. Screw stays: Material STEEL Tensile strength

Diameter {At turned off part, 1 1/2" or Over threads No. of threads per inch 9 Area supported by each stay 57.34 SQ. INS.



Working pressure by Rules 250 lbs. Are the stays drilled at the outer ends No. Margin stays: Diameter 1 3/4" ^{At turned off part.} _{Over threads.}

No. of threads per inch 9 Area supported by each stay 78.29 sq ins Working pressure by Rules 267 lbs.

Tubes: Material 10 LSA. External diameter 3" Thickness 5/16" No. of threads per inch 10.

Pitch of tubes 3 1/16" x 3 1/16" Working pressure by Rules 140 lbs Manhole compensation: Size of opening in shell plate 20 1/2" x 16 1/2" Section of compensating ring 5 3/4" x 1" No. of rivets and diameter of rivet holes 40 - 1 1/16" DIA.

Outer row rivet pitch at ends 4 5/8" Depth of flange if manhole flanged 3 3/4" Steam Dome: Material _____

Tensile strength _____ Thickness of shell _____ Description of longitudinal joint _____

Diameter of rivet holes _____ Pitch of rivets _____ Percentage of strength of joint ^{Plate} _____ _{Rivets} _____

Internal diameter _____ Working pressure by Rules _____ Thickness of crown _____ No. and diameter of stays _____ Inner radius of crown _____ Working pressure by Rules _____

How connected to shell _____ Size of doubling plate under dome _____ Diameter of rivet holes and pitch of rivets in outer row in dome connection to shell _____

Type of Superheater _____ Manufacturers of ^{Tubes} _____ _{Steel castings} _____

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 _____

Area of each safety valve _____ Are the safety valves fitted with easing gear _____ Working pressure as per Rules _____ Hydraulic test pressure: _____

tubes _____ 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 23 inclusive for boilers been complied with _____

The foregoing is a correct description,

 Manufacturer.

Dates of Survey ^{During progress of work in shops - -} _____ Are the approved plans of boiler and superheater forwarded herewith (If not state date of approval.) _____

while building ^{During erection on board vessel - - -} _____ Total No. of visits _____

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

These Boilers have not been built under Special Survey but have now been opened out, specially examined internally and externally with their mountings and safety valves.

The workmanship and materials appear to be of a good quality and when examined under steam the Boilers were found tight and satisfactory in every respect.

The safety valves have been adjusted to 185 lbs per sq inch and an accumulation test held was quite satisfactory.

See Surveyor's letter E 14/16/26.

Survey Fee £	:	:	When applied for,	192
Travelling Expenses (if any) £	:	:	When received,	192

J. H. Leicester
 Engineer Surveyor to Lloyd's Register of Shipping.

Committee's Minute LIVERPOOL 13 AUG. 1926

Assigned See attached reports.

FRI. 3 SEP 1926
 FRI. 10 SEP 1926

