

## REPORT ON BOILERS.

No. 58609

29 AUG 1952

Received at London Office

Writing Report ..... 19..... When handed in at Local Office 25 AUG 1952 Port of Hull

Survey held at Hull Date, First Survey 11. 1. 52 Last Survey 7. 7. 1952

on the S. Sc. Steam Trawler Cape Sambo (Number of Visits 18) Gross 399 Tons Net 135

Built at Selby By whom built Cochrane & Son Ltd Yard No. 1379 When built 1952

es made at Hull By whom made Amos & Smith Ltd Engine No. 833 When made 1952

s made at " By whom made " & " Boiler No. 833 When made 1952

al Horse Power..... Owners National Sea Products Port belonging to Halifax N.S.

## TITUBULAR BOILERS MAIN, AUXILIARY, OR DONKEY.

Manufacturers of Steel Appleby-Frodingham Steel Coy Ltd (Letter for Record S)

Heating Surface of Boilers 2040 sq. ft Superheaters 715 sq. ft forced draught fitted Yes Coal or Oil fired Oil

nd Description of Boilers One single ended cylindrical multitubular Working Pressure 210 lb/sq. in.

l by hydraulic pressure to 365 lb Date of test 11-1-52 No. of Certificate 4380 Can each boiler be worked separately -

of Firegrate in each Boiler - No. and Description of safety valves to each boiler One - 2 3/4" dia. double spring I.H.L.

of each set of valves per boiler per Rule approved Pressure to which they are adjusted 210 lbs Are they fitted with easing gear Yes

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

st distance between boilers or uptakes and bunkers or woodwork 4 ft. Is oil fuel carried in the double bottom under boilers -

st distance between shell of boiler and tank top plating open floor Is the bottom of the boiler insulated No

st internal dia. of boilers 14' 3" Length 10' 11 1/2" Shell plates: Material Steel Tensile strength 29-33 tons/sq. in.

ess. 1 5/16" Are the shell plates welded or flanged No Description of riveting: circ. seams end D.R. lap

ams T.R. double butt Diameter of rivet holes in { circ. seams 1 1/32" Pitch of rivets { 4 1/16"

stage of strength of circ. end seams { plate 68 Percentage of strength of circ. intermediate seam { plate -

stage of strength of longitudinal joint { rivets 45.8 rivets -

plate 85.8 rivets 85.4 Working pressure of shell by Rules approved

combined 88.7

ess of butt straps { outer 1" No. and Description of Furnaces in each Boiler 3 - Deighton type corrugated

inner 1 1/8" Tensile strength 26-30 tons Smallest outside diameter 4 1/4"

al steel Thickness of plates { crown 5/8" Description of longitudinal joint welded

of plain part { top - bottom - Working pressure of furnace by Rules approved

sions of stiffening rings on furnace or c.c. bottom -

ates in steam space: Material steel Tensile strength 26-30 tons Thickness 1 3/16" Pitch of stays 21" x 17 1/2"

e stays secured double nuts & washers Working pressure by Rules approved

lates: Material { front steel Tensile strength { 26-30 tons Thickness { 1 3/16"

back " Tensile strength { 26-30 tons Thickness { 7/8"

itch of stay tubes in nests 9 1/2" x 9 1/2" Pitch across wide water spaces 14" Working pressure { front approved

back "

to combustion chamber tops: Material Steel Tensile strength 29-33 tons Depth and thickness of girder

e two 9 3/4" x 7/8" Length as per Rule 3' 0" Distance apart 9" & 9 1/2" No. and pitch of stays

3 off 8" Working pressure by Rules approved Combustion chamber plates: Material steel

strength 26-30 tons Thickness: Sides 1/16" Back 1/16" Top 1/16" Bottom 23/32"

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

pressure by Rules approved Front plate at bottom: Material steel Tensile strength 26-30 tons

ss 15/16" Lower back plate: Material steel Tensile strength 26-30 tons Thickness 7/8"

stays at wide water space 14" x 8 3/4" Are stays fitted with nuts or riveted over Nuts

pressure approved Main stays: Material steel Tensile strength 28-32 tons

Over threads 3 1/4" No. of threads per inch 6 Area supported by each stay -

pressure by Rules approved Screw stays: Material steel Tensile strength 26-30 tons

Over threads 1 3/4" No. of threads per inch 9 Area supported by each stay -



Working pressure by Rules approved Are the stays drilled at the outer ends No Margin stays: Diameter At turned off part 1 1/8" 2"  
No. of threads per inch 9 Area supported by each stay — Working pressure by Rules approved  
Tubes: Material steel External diameter 3 1/2" Thickness 8 w.g. No. of threads per inch 9  
Pitch of tubes 4 3/4" X 4 3/4" Working pressure by Rules approved Manhole compensation: Size of open  
shell plate 12" X 16" Section of compensating ring 37" X 1 1/8" No. of rivets and diameter of rivet holes 94 - 1 5/16"  
Outer row rivet pitch at ends 10 1/4" Depth of flange if manhole flanged 3" in dome 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 54.2  
Internal diameter 3'-0" Working pressure by Rules approved Thickness of crown 1" No. and diam  
stays 2 - 2 1/2" Inner radius of crown flat Working pressure by Rules approved  
How connected to shell S.R. lap joint Size of doubling plate under dome 4'-8 5/8" dia X 1 1/8" thk Diameter of rivet holes and  
of rivets in outer row in dome connection to shell 1 5/16" dia 10 1/4" pitch.

Type of Superheater MELESCO Manufacturers of See Manchester certificate  
Number of elements 40 Material of tubes steel Internal diameter and thickness of tubes 20 mm 2.5"  
Material of headers steel Tensile strength — Thickness — Can the superheater be shut  
the boiler be worked separately Yes Is a safety valve fitted to every part of the superheater which can be shut off from the boiler Yes  
Area of each safety valve 3.14 sq. in Are the safety valves fitted with casing gear Yes Working pressure  
Rules approved Pressure to which the safety valves are adjusted 215 lbs per sq. in Hydraulic  
tubes forgings and castings and after assembly in place 630 lbs Are drawn  
valves fitted to free the superheater from water where necessary Yes  
Have all the requirements of Sections 14 to 22 inclusive for boilers been complied with Yes

For AMOS & SMITH LTD.  
The foregoing is a correct description,

A.R. Kennedy Manager

Dates of Survey 1952  
During progress of work in shops Jan 11, 18, Feb. 22, 27, Mar. 4, 5, 10, 17 Are the approved plans of boiler and superheater forwarded herewith 11-5  
while building See machinery report Total No. of visits 18 (If not state date of approval.) amended 13-2

Is this Boiler a duplicate of a previous case Yes If so, state Vessel's name and Report No. Tape Brier Rept N°

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

The boiler has been constructed and installed under special survey in accordance with the Secretary's letters, approved plans and the Rules.

The materials and workmanship are good.

The boiler was examined under hydraulic test of 365 lbs. per sq. in. on completion & found sound and tight.

The safety valves were adjusted under steam to 210 lbs per sq. in. on accumulation test held.

Survey Fee See Macby Report. When applied for 19  
Travelling Expenses (if any) £ — When received 19

F.A. Macfarlane

Engineer Surveyor to Lloyd's Register of Ship

FRI. 19 SEP 1952

Committee's Minute

Assigned See F.E. Macby. rpt



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Foundation