

REPORT ON BOILERS.

No. 30,228

Date of writing Report 29-10-17 191 When handed in at Local Office 3-11-17 191 Received at London Office

No. in Survey held at Hull Port of Hull

Reg. Book. Date, First Survey 2-7-17 Last Survey 2-11-17 191

on the steel screw trawler "Lewis Roatley" (Number of Visits 26) (Gross 324 Tons) (Net 133)

Master Lelby Built at Lelby By whom built Cochran & Sons Ltd

Engines made at Dunfermline By whom made Cooper & Greig Ltd When built 1912-11

Boilers made at Hull By whom made C. D. Holmes & Co Ltd (No 27) When made 1917-11

Registered Horse Power 87 Owners British Admiralty When made 1917-11

Port belonging to

MULTITUBULAR BOILERS—MAIN, AUXILIARY OR DONKEY.—Manufacturers of Steel John James & Sons & Partners Ltd

(Letter for record S) Total Heating Surface of Boilers 1440 sq ft Is forced draft fitted no

Boilers one single ended Working Pressure 200 Tested by hydraulic pressure to 400 No. and Description of

No. of Certificate 3232 Can each boiler be worked separately yes Area of fire grate in each boiler 48 sq ft No. and Description of

safety valves to each boiler two spring loaded Area of each valve 4.9 sq in Pressure to which they are adjusted 205

Are they fitted with easing gear yes In case of donkey boilers, state whether steam from main boilers can enter the donkey boiler yes

Smallest distance between boilers 8" Bl lagged and bunkers on woodwork diam. of boilers 165" Length 10'-8"

Material of shell plates steel Thickness 1 5/16" Range of tensile strength 28-32 Are the shell plates welded or flanged no

Descrip. of riveting: cir. seams double long. seams T.R.D.B.1 Diameter of rivet holes in long. seams 1 1/4" Pitch of rivets 8 5/8"

Lap of plates or width of butt straps 18 3/8" Per centages of strength of longitudinal joint rivets 85.9 plate 85.5 Working pressure of shell by

rules 202 Size of manhole in shell 16" x 12" Size of compensating ring 7" x 1 5/16" No. and Description of Furnaces in each

boiler three plain Material steel Outside diameter 40" Length of plain part 78 1/2" Thickness of plates 3 13/16"

Description of longitudinal joint welded No. of strengthening rings 3 Working pressure of furnace by the rules 206 Combustion chamber

plates: Material steel Thickness: Sides 3/4" Back 2 5/32" Top 3/4" Bottom 3/4" Pitch of stays to ditto: Sides 10" x 8" Back 9 3/4" x 8 3/4"

Top 11" x 8" If stays are fitted with nuts or riveted heads nuts Working pressure by rules 208 Material of stays steel Diameter at

smallest part 2.07 sq in Area supported by each stay 88 sq in Working pressure by rules 211 End plates in steam space: Material steel Thickness 1 7/32"

Pitch of stays 19 x 17 5/8" How are stays secured by nuts Working pressure by rules 210 Material of stays steel Diameter at smallest part 7.5 sq in

Area supported by each stay 335 sq in Working pressure by rules 233 Material of Front plates at bottom steel Thickness 1 5/16" Material of

Lower back plate steel Thickness 1 5/16" Greatest pitch of stays 13 3/4" x 9 9/16" Working pressure of plate by rules 216 Diameter of tubes 3 1/2"

Pitch of tubes 4 7/8" Material of tube plates steel Thickness: Front 1 5/16" + 3/16" double Back 7/8" Mean pitch of stays 10" Pitch across wide

water spaces 14" Working pressures by rules 275 Girders to Chamber tops: Material steel Depth and thickness of

girder at centre 11" x 1 3/4" Length as per rule 36.218 Distance apart 11" Number and pitch of Stays in each three 8"

Working pressure by rules 201 Superheater or Steam chest: how connected to boiler yes Can the superheater be shut off and the boiler worked

separately yes Diameter 11" Length 11" Thickness of shell plates 3/16" Material steel Description of longitudinal joint welded Diam. of rivet

holes 1 1/4" Pitch of rivets 8" Working pressure of shell by rules 201 Diameter of flue 11" Material of flue plates steel Thickness 3/16"

If stiffened with rings yes Distance between rings 11" Working pressure by rules 201 End plates: Thickness 3/16" How stayed by nuts

Working pressure of end plates 201 Area of safety valves to superheater 11" Are they fitted with easing gear yes

The foregoing is a correct description,
C. D. Holmes & Co Ltd Manufacturer.

Dates of Survey: During progress of 1917: July 2, 6, 13, 18, 27, 31, Aug. 2, 13, 21, 24, 27 Is the approved plan of boiler forwarded herewith yes

while building: During erection on board vessel 26 29, 31, Sep 19, 26, Oct 4, 3, 11, 16, 17, 19, 20, 24, 26, Nov 1, 2 Duplicate already forwarded

Total No. of visits

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

This Boiler has been constructed under special survey in accordance with the approved plan & the rules of this Society, the materials & workmanship are good. The boiler has been fitted & secured on board the vessel & its safety valves adjusted under steam.

Survey Fee ... £ 6 : 10 : When applied for, 1917

Travelling Expenses (if any) £ : When received, 30-11-1917

Frank A. Sturgeon
 Engineer Surveyor to Lloyd's Register of British and Foreign Shipping.

Committee's Minute FRI. 9-NOV 1917