

REPORT ON BOILERS.

Received at London Office

Date of writing Report 191 When handed in at Local Office 28 MAR 1919 Port of SUNDERLAND SAT. 29 MAR 1919

No. in Survey held at Sunderland Date, First Survey 9th May '18 Last Survey 7th March 1919

Reg. Book. on the 2 Single ended Main Boilers by Maccoll & Pollock Ltd (297) Number of Visits 13 Tons } Gross } Net

Master Built at By whom built When built

Engines made at By whom made When made

Boilers made at Sunderland By whom made Maccoll & Pollock (297) When made 1919

Registered Horse Power Owners Port belonging to

MULTITUBULAR BOILERS—MAIN, AUXILIARY OR DONKEY.—Manufacturers of Steel *Spinney & Sons*

(Letter for record 5) Total Heating Surface of Boilers 3650 sq ft Is forced draft fitted Yes No. and Description of Boilers 2 Single Ended Working Pressure 200 lbs Tested by hydraulic pressure to 400 lbs Date of test 7.3.19

No. of Certificate 3530, 3545 Can each boiler be worked separately Area of fire grate in each boiler No. and Description of safety valves to each boiler Area of each valve Pressure to which they are adjusted

Are they fitted with easing gear 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 Mean dia. of boilers 13'-0" Length 11'-6"

Material of shell plates 5 Thickness 1 1/4 Range of tensile strength 28-32 Are the shell plates welded or flanged No

Descrip. of riveting: cir. seams lap at long. seams d. 1/2 riv. Diameter of rivet holes in long. seams 1/4 Pitch of rivets 9 5/16

Lap of plates or width of butt straps 19" Per centages of strength of longitudinal joint rivets 86 plate 85 Working pressure of shell by rules 200 Size of manhole in shell 16 x 12 Size of compensating ring 35 1/2 x 3 1/2 x 1 1/4 No. and Description of Furnaces in each boiler 3 Division Material 5 Outside diameter 4 3/4 Length of plain part top bottom Thickness of plates crown 3 9/16 bottom 3 9/16

Description of longitudinal joint welded No. of strengthening rings Working pressure of furnace by the rules 211 Combustion chamber plates: Material 5 Thickness: Sides 1/2 Back 1/2 Top 1/2 Bottom 1" Pitch of stays to ditto: Sides 8 3/4 x 9 Back 9 x 8

Top 9 x 8 1/2 If stays are fitted with nuts or riveted heads 4 nuts Working pressure by rules 207 Material of stays 5 Area at smallest part 2.03 sq ft Area supported by each stay 78 3/4 Working pressure by rules 232 End plates in steam space: Material 5 Thickness 1 3/16

Pitch of stays 17 1/2 x 17 1/2 How are stays secured d. riv. Working pressure by rules 206 Material of stays 5 Area at smallest part 6.1 sq ft

Area supported by each stay 306 sq in Working pressure by rules 207 Material of Front plates at bottom 5 Thickness 1" Material of Lower back plate 5 Thickness 1" Greatest pitch of stays 14" Working pressure of plate by rules 250 Diameter of tubes 2 1/2

Pitch of tubes 3 3/4 x 3 1/4 Material of tube plates 5 Thickness: Front 1" Back 3/4 Mean pitch of stays 7 1/2 x 1 1/4 Pitch across wide

ter spaces 13 1/4 Working pressures by rules 244 Girders to Chamber tops: Material 5 Depth and thickness of

der at centre 8 x 1 3/4 Length as per rule 31" Distance apart 8 1/2" Number and pitch of Stays in each 2, 9"

orking pressure by rules 201 Steam dome: description of joint to shell % of strength of joint

iameter Thickness of shell plates Material Description of longitudinal joint Diam. of rivet holes

ch of rivets Working pressure of shell by rules Crown plates Thickness How stayed

PERHEATER. Type Date of Approval of Plan Tested by Hydraulic Pressure to

te of Test Is a Safety Valve fitted to each Section of the Superheater which can be shut off from the Boiler

iameter of Safety Valve Pressure to which each is adjusted Is Easing Gear fitted

MACCOLL & POLLOCK, LTD
The foregoing is a correct description,
J. A. Richardes Manufacturer.

Dates During progress of 1918 May 9, Oct 22, Nov 19, 26, 29 Dec 10, 18, Jan 8, 13, 29 Is the approved plan of boiler forwarded herewith Director. Yes

while work in shops - - - Feb. 10, Mar 7

building During erection on board vessel - - - Total No. of visits 13

GENERAL REMARKS (State quality of workmanship, opinions as to class, &c.) These Boilers have been built under special survey. The materials and workmanship are sound and good. The tubes were originally intended to be fitted in a "Patrol tubular" but are now stuck boilers and will be sold.

FRI. NOV. 30 1923
TUE. 20 NOV. 1923
FRI. AUG. 31 1923

Survey Fee ... £ 10 : 14 : 7 When applied for, 28 MAR 1919

Travelling Expenses (if any) £ : : When received, 2.5.19 191

TUE. 13 JUN. 1922
TUE. JUN. 20 1922
FRI. 9 MAR 1923

Committee's Minute
Assigned *See Minute on page 16 1919*

Engineer Surveyor to Lloyd's Register of Shipping