

PARTICULARS OF BOILERS.			
HEATING SURFACE	ONE BOILER	4 BOILERS	
TUBES	2500		
FURNACES	212		
C.C. SIDES	206		
C.C. BACK	127		
BACK TUBES	70		
FRONT	60		
TOTAL SURT	3265	13,060	
GRATE AREA 3'-7"x5'-6" BARS 70.5		315	
RATIO = $\frac{H}{L} = \frac{1}{4.4}$			
TUBE AREA	14.28	57.12	

TESTS OF MATERIAL			
SHELL PLATES	30 To 34 TONS		
BUTT STRAPS	30 To 34		
COMPENSATING PLATE	27 To 30		
ALL COMB CH PLATES	24 To 30		
FLANGING PLATES	24 To 30		
MANHOLE DOORS	24 To 32		
SCREEN BARS	24 To 32		
LONGIT. STAYS	24 To 30		
SCREENED STAYS	24 To 30		

EFFECTIVE AREA OF STAYS			
DIA OF STAY	6 THREADS	9 THREADS	
2 1/2"	7.85 Q"		
3"	7.24 Q"		
2"		8.71 Q"	
1 1/2"		2.36 Q"	
1"		2.03 Q"	
3/4"		1.78 Q"	

LIST OF STEEL PLATES FOR SINGLE ENDED BOILERS				
MARK	DESCRIPTION	NO OF LENGTH	BREADTH	THICK
1	SHELL			30-34 TONS
2				
3				
4	BUTT STRAPS OUTER			
5	INNER			
6	COMPENSATING PLATE			27-30
7	MID FRONT PLATE			24-30
8	BACK			
9	BACK TUBE PLATE			
10	WINGS			
11	COMB CH BACK CENTER			
12	WINGS			
13	MANHOLE DOORS			24-32
14	GIRDERS			

15	TOP END FRONT & BACK			24-30
16	BOTTOM END FRONT			24-30
17	BOTTOM END BACK			24-30
18	COMB CH SIDES & BOTTOM CENTER			24-30
19	COMB CH SIDES & BOTTOM WINGS			24-30
20	DOUBLING PLATES			20-32

STEEL STAYS FOR SINGLE ENDED BL				
MARK	DESCRIPTION	NO OF	DIMENSIONS	TENSILE STRENGTH
1	STEAM SPACE STAYS			28-32 TONS
2	WATER			
3	SCREENED STAYS			24-30
4				
5				

NOTE: QUANTITY MARKED FOR ONE ENGINE N°  
REPEAT FOR ENGINE N° 3192-3

MAIN BOILER.

SCALE 1" = ONE FOOT  
4" OFF EACH ENG N°



ENCLOSURE TO

Messrs. Lloyd's Surveyors  
W. Castle

10,000 816 7/7/15 21/03435

FROM R. & W. HAWTHORN, LESLIE & CO., LTD.,  
ST. PETER'S WORKS, NEWCASTLE-ON-TYNE.

W/209-0219(112)

W.S. 265

Muller's Steel Iron Borders

Nº 3191-2-3

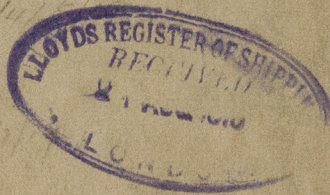
by

Row Hawthorn Leslie & Co Ld

for them

Nº 487-8-9 Vessels

200 Tons Working Premises



T. S. S. PORT NICHOLSON

NEWCASTLE ON TYNE.

Report No. 4,885.

T. S. S.

NEWCASTLE ON TYNE.

Report No. 73353.

"Port Adelaide"

Nº 2678.

209-0219