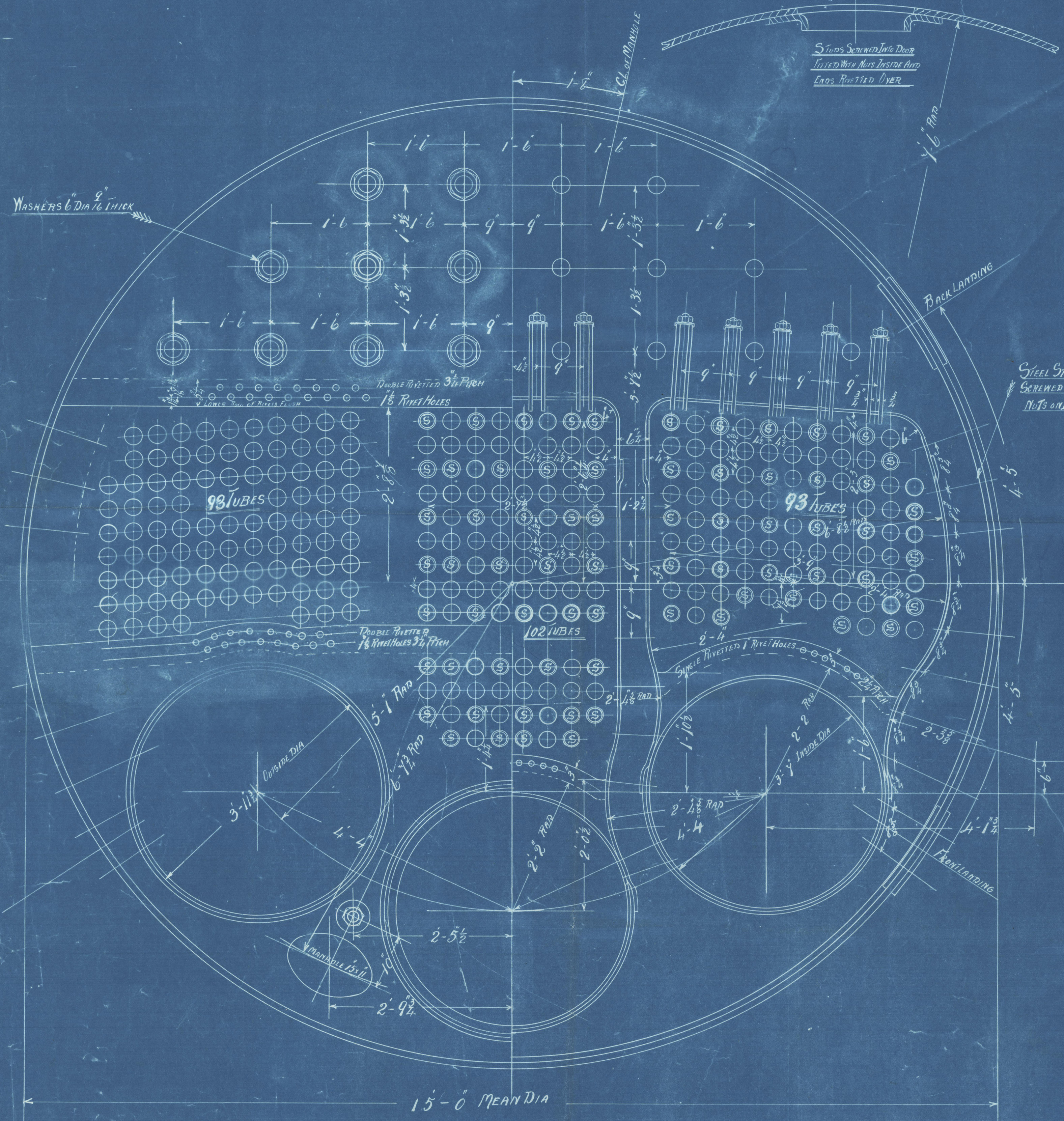
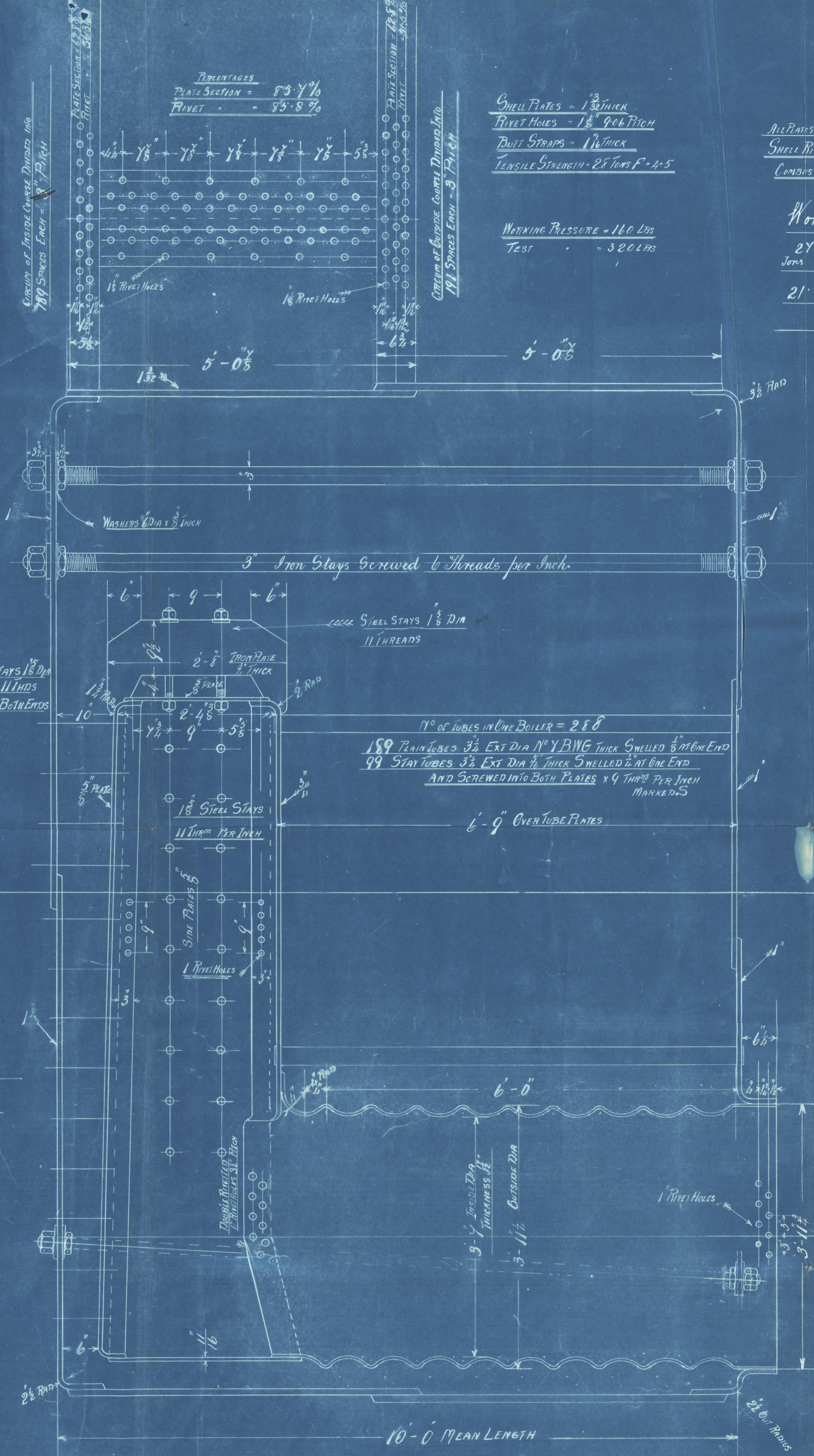


23.2.98



FRONT END OF BOILER LOOKING AFT



10'-0" MEAN LENGTH



SHELL PLATES - 1/2" THICK
RIVET HOLES - 1 1/8" 90° TIGHT
BUTT STRAPS - 1/2" THICK
TENSILE STRENGTH - 28 TONS F-4-5

WORKING PRESSURE - 160 LBS
TEST - 320 LBS

MATERIAL
ALL PLATES OF STEEL TUBES AND CURBERS OF IRON
SHELL RIVETS STEEL THE REST OF IRON
COMBUSTION CHAMBER STAYS OF STEEL THE REST OF IRON

Working Pressure Rules

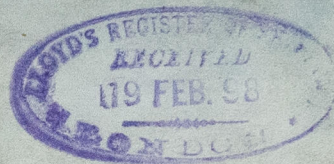
$$\frac{27 \times 28 \times 24 \times 21 \times 17}{150} = 160.65 \text{ lbs}$$

HEATING SURFACE	
SURFACE IN TUBES	= 1618.73 Sq Ft
" " FURNACES	= 117
" " FIRE BOX BACKS	= 88.5
" " SIDES	= 128
" " TUBE PLATES	= 44.99
TOTAL HEATING SURFACE = 1997.16 Sq Ft	
GRATE SURFACE = 59 Sq feet	
RATES GRATE TO HEATING 33.83	
FIREBARS = 5'-6" LONG	
1 PAIR OF 3" SAFETY VALVES	



BACK END OF BOILER LOOKING FORWARD

BOILER N° 402
SCALE 1" = 1 FOOT
7th FEB 1898
To Pass LLOYDS SURVEY



Caledon S. B & E. Co's
Boiler No 402
For

Caledon S. B & E Co's
S.S. No 142

No 745-
Lloydi Test-
~~320~~ lbs
320
WM-26-7-98

S S "Tagus"

Dun Rpt No 6433



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Lloyd's Register
Foundation
DUN127-0093