

## REPORT ON BOILERS

No. 63662

FRI. FEB. -7. 1913

Received at London Office

Date of writing Report 4 Feb 1913 When handed in at Local Office FEB 4 1913 Port of Newcastle

No. in Survey held at Newcastle Date, First Survey 25 May 1911 Last Survey 21 Jan 1912

Reg. Book. on the S.S. "City of Marseilles" (Number of Visits) Tons Gross 8250  
Net 5289

Master Palmees Co Built at Newcastle By whom built Palmees Co When built 1913

Engines made at Newcastle By whom made Palmees Co When made 1913

Auxiliary Boilers made at to By whom made to Hethum No. 693 When made 1913

Registered Horse Power to Owners Edleman Lines Ltd. Port belonging to Liverpool

MULTITUBULAR BOILERS—MAIN, AUXILIARY OR DONKEY.—Manufacturers of Steel J. Spence & Sons & Palmees Co

(Letter for record S) Total Heating Surface of Boilers 1750 sq Is forced draft fitted yes No. and Description of Boilers one, single ended Working Pressure 225 lbs Tested by hydraulic pressure to 450 lbs Date of test 8-3-12

No. of Certificate 8285 Can each boiler be worked separately yes Area of fire grate in each boiler 37 sq No. and Description of safety valves to each boiler two, spring Area of each valve 3.98 sq Pressure to which they are adjusted 225 lbs

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 or uptakes and bunkers or woodwork 1'-6" Mean dia. of boilers 12'-0" Length 12'-0"

Material of shell plates Steel Thickness 1 1/32" Range of tensile strength 29-32 1/2 Are the shell plates welded or flanged no

Descrip. of riveting: cir. seams S. Lap long. seams BS & Rivet Diameter of rivet holes in long. seams 1 3/8" Pitch of rivets 9 1/8"

Lap of plates or width of butt straps 20 1/2" Per centages of strength of longitudinal joint rivets 89.7 Working pressure of shell by plate 84.9

rules 260 lbs Size of manhole in shell 16" x 12" Size of compensating ring McNeil No. and Description of Furnaces in each boiler 2 - horizontal Material Steel Outside diameter 43 3/8" Length of plain part top 2 1/32" Thickness of plates crown 2 1/32"  
bottom 3/32"

Description of longitudinal joint Welded No. of strengthening rings yes Working pressure of furnace by the rules 242 lbs Combustion chamber plates: Material Steel Thickness: Sides 2 1/32" Back 2 1/32" Top 2 1/32" Bottom 3 3/32" Pitch of stays to ditto: Sides 8" x 7 3/4" Back 8 1/4" x 7 3/4"

Top 8 1/4" x 7 3/4" If stays are fitted with nuts or riveted heads nuts Working pressure by rules 232 lbs Material of stays Steel Diameter at smallest part 2-03" Area supported by each stay 64 sq Working pressure by rules 285 lbs End plates in steam space: Material Steel Thickness 1 1/8"

Pitch of stays 16" x 16" How are stays secured S. n. w. Working pressure by rules 233 lbs Material of stays Steel Diameter at smallest part 6-65"

Area supported by each stay 256 sq Working pressure by rules 265 lbs Material of Front plates at bottom Steel Thickness 1 3/32" Material of Lower back plate Steel Thickness 1 5/16" Greatest pitch of stays 14" Working pressure of plate by rules 233 lbs Diameter of tubes 2 1/2"

Pitch of tubes 3 3/4" x 3 3/4" Material of tube plates Steel Thickness: Front 1 3/32" Back 2 9/32" Mean pitch of stays 7 1/2" Pitch across wide water spaces 14" Working pressures by rules 233 lbs Girders to Chamber tops: Material Steel Depth and thickness of girder at centre 9 1/4" x 1 3/4" Length as per rule 3 1/2" Distance apart 8 1/4" Number and pitch of Stays in each 2-7 3/4"

Working pressure by rules 272 lbs Superheater or Steam chest; how connected to boiler none Can the superheater be shut off and the boiler worked separately yes Diameter yes Length yes Thickness of shell plates yes Material yes Description of longitudinal joint yes Diam. of rivet holes yes Pitch of rivets yes Working pressure of shell by rules yes Diameter of flue yes Material of flue plates yes Thickness yes

If stiffened with rings yes Distance between rings yes Working pressure by rules yes End plates: Thickness yes How stayed yes

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

The foregoing is a correct description,

Manufacturer.

Dates of Survey See Machinery Report

During progress of work in shops --

while building During erection on board vessel --

Is the approved plan of boiler forwarded herewith yes

Total No. of visits

## GENERAL REMARKS

(State quality of workmanship, opinions as to class, &amp;c.)

This auxiliary boiler has been constructed under special survey & the materials and workmanship are found to be good.

Survey Fee ... See Machinery Report When applied for, 191

Travelling Expenses (if any) £ When received, 191

Committee's Minute

TUE. FEB. 11. 1913

Assigned

See Minute on  
 how Rpt 63662

Thomas Field  
 Engineer Surveyor to Lloyd's Register of British and Foreign Shipping.



Lloyd's Register  
 Foundation

W155-0049