

## REPORT ON BOILERS.

No. 84256.

Received at London Office 30 APR 1921

Writing Report *Mar. 8<sup>th</sup> 1921* When handed in at Local Office **30 APR 1921** Port of *London*  
 Survey held at *Stitchin.* Date, First Survey *22<sup>nd</sup> NOVEMBER 1920.* Last Survey *April 28<sup>th</sup> 1921*  
 Book. *M.V. "PHILO"* (Number of Visits *4*) Gross *332.47*  
 on the *Spencer & Howard Reels for New Brighton Harbour Co. Ltd.* Tons Net *208.93*  
 Built at *Gosport* By whom built *Camper & Nicholson Ltd* When built *1921*  
 Made at *Stitchin* By whom made *Spencer-Bruce & Co. Ltd* When made *1921*  
 The British Oil Bunkering Co. Ltd Port belonging to *London*

VERTICAL DONKEY BOILER— No. *13434* Description *Spencer & Howard* Manufacturers of steel *The Steel Co. of Scotland*  
 Made at *Stitchin* By whom made *Spencer-Bruce & Co. Ltd* When made *1921* Where fixed *Engine Room* Working pressure *120 lb*  
 Tested by hydraulic pressure to *230* Date of test *28-4-21* No. of Certificate *1228* Fire grate area *8.34* Description of safety valves *Spring loaded*  
 of safety valves *2* Area of each *3.14* Pressure to which they are adjusted *120 lb* If fitted with easing gear *yes* If steam from main boilers can  
 for the donkey boiler *✓* Dia. of donkey boiler *3'-8"* Length *8'-0"* Material of shell plates *Steel* Thickness *3/8"* Range of tensile  
 strength *26-30* Descrip. of riveting long. seams *W.R. Lap* Dia. of rivet holes *13/16* Whether punched or drilled *drilled* Pitch of rivets *2 5/8*  
 of plating *4 1/4* Per centage of strength of joint *87%* Rivets *69%* Working pressure of shell by rules *120* Thickness of shell crown plates *1/2"*  
 Radius of do. *flat* No. of stays to do. *✓* Dia. of stays *✓* Diameter of furnace Top *36"* Bottom *40"* Length of furnace *46"*  
 Thickness of furnace plates *1/2"* Description of joint *welded* Working pressure of furnace by rules *120* Thickness of furnace crown  
 Radius of do. *flat* Stayed by *✓* Diameter of uptake *13 1/4"* Thickness of uptake plates *1/2"*  
 Thickness of water tubes *10.12 lbs.* *12 1/2" tubes 1/4" thick*

The foregoing is a correct description,  
 Manufacturer. *A. H. Boyle*

Dates { During progress of work in shops - - } *1920: Nov 22 1921: FEB 9. MAR 8. Apr 28.*  
 { During erection on board vessel - - } *23<sup>rd</sup> Sept. 19<sup>th</sup> Oct. 3<sup>rd</sup> Nov. 1921*  
 while building { Total No. of visits } *4 and 3.*

Is the approved plan of boiler forwarded herewith *Yes*

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

This boiler has been built under Special Survey and in accordance with the approved plan. The material was manufactured by The Steel Co. of Scotland.

The workmanship is good and the boiler was tested by hydraulic pressure to 230 lbs per sq. in. and was found tight and free from leakage.

The boiler is stamped *Class A test 230 lbs. wt. 120 lbs.*  
*S.P.C. 28.4.21.*

The Boiler has been efficiently fitted on board the above vessel and the Safety Valves adjusted under steam to 120 lbs.  
 Thickness of washers =  $\frac{9}{32}$ "

*A. H. Boyle*

Survey Fee ... £ *4.4 0* When applied for, **30 APR 1921**  
 Travelling Expenses (if any) £ *1 7 0* When received, *9.6.21*

*A. H. Boyle*  
 Engineer Surveyor to Lloyd's Register of Shipping.

Committee's Minute *TUE 15 NOV. 1921*  
 Assigned