

REPORT ON BOILERS.

No. 410.
28 APR 1930

Received at London Office 12 NOV 1929

Date of writing Report *Nov 6th 1929* When handed in at Local Office 10 Port of *Sheffield*
No. in Survey held at *Cradley Heath, Staffs.* Date, First Survey *23/7/29* Last Survey *Nov 2nd 1929*
Reg. Book. *19518* on the *Fun. Motor Vessel "BORINGIA"* (Number of Visits *4*) Gross *5820.99* Tons Net *3605.64*
Master *✓* Built at *Copenhagen* By whom built *Akt. Burmeister & Wain's, Haskin or Thilstygeri.* When built *1929-30*
Boilers made at *Cradley Heath* By whom made *Messrs The Cradley Boiler Co. Ltd* When made *1929*
Runners *To the Order of Messrs Burmeister & Wain Ltd* ✓ Port belonging to *Y^d N^o 16920 Copenhagen.*
Owners: Akt. Det Ostasiatiske Kompagni.

VERTICAL DONKEY BOILER— No. *1* ✓ Description *Cross Tube* ✓ Manufacturers of steel *Messrs D Colville & Sons* ✓
Made at *Cradley Heath* ✓ By whom made *Cradley Boiler Co. Ltd* ✓ When made *1929* Where fixed *In machinery space* Working pressure *90 lbs* ✓
Tested by hydraulic pressure to *180* Date of test *2/11/29* No. of Certificate *509* Fire grate area *48.9* Description of safety valves *2 1/2 D. Marine* ✓
No. of safety valves *2* ✓ Area of each *4.9* ✓ Pressure to which they are adjusted *90 lbs* ✓ If fitted with easing gear *Yes* If steam from main boilers can enter the donkey boiler *no* ✓ Dia. of donkey boiler *5-6* ✓ Length *12-0* ✓ Material of shell plates *Steel* ✓ Thickness *13/32* ✓ Range of tensile strength *28/32* ✓ Descrip. of riveting long. seams *D. R. Lap* ✓ Dia. of rivet holes *13/16* ✓ Whether punched or drilled *Drilled* Pitch of rivets *2 1/2* ✓
Lap of plating *4 1/2* ✓ Per centage of strength of joint *83.8* Rivets *67.5* Plates Working pressure of shell by rules *108 lbs* Thickness of shell crown plates *17/32* ✓
Radius of do. *4-6* ✓ No. of Stays to do. *none* Dia. of stays ✓ Diameter of furnace Top *4-5 1/4* Bottom *4-11* Length of furnace *6-9* *3-11 Rivet Centre* ✓
Thickness of furnace plates *9/16* ✓ Description of joint *Welded* ✓ Working pressure of furnace by rules *103 lbs* Thickness of furnace crown plates *5/8* ✓ Radius of do. *4-6* ✓ Stayed by *Uptake* ✓ Diameter of uptake *18 1/4* ✓ Thickness of uptake plates *9/16* ✓
Thickness of water tubes *3/8* ✓

The foregoing is a correct description,
For and on behalf of
CRADLEY BOILER CO. LTD. Manufacturer.

Dates of Survey { During progress of work in shops - - *23/7/29. 6/9/29. 28/9/29. 2/11/29.*
while building { During erection on board vessel - - *13/2. 14/2. 17/2. 13/3. 22/3. 4/4. 12/4. 30*
Total No. of visits *15* Is the approved plan of boiler forwarded herewith *Yes.*

GENERAL REMARKS (State quality of workmanship, opinions as to class, &c.) *This boiler has been built under special survey and to the approved plan, The materials have been tested in accordance with the rules and the workmanship is good.*

This boiler has been despatched to Messrs Burmeister & Wain Ltd. Copenhagen for their Yard N^o 560.

Marked. N^o 509.
LLOYDS TEST.
180. LB^s
W.P. 90 "
RWF 2/11/29.

This boiler has now been fitted on board the above vessel and connected complete to our entire satisfaction.

a duplex feed pump 90"m x 60"m x 90"m (Worthington system) and a steam feed injector have been fitted for feeding purpose to the boiler.

Recommend the vessel to have notation of IB-90 lbs. per square inch in the Register Book.

A. S. Fawcett
SURVEYOR TO LLOYD'S REGISTER OF SHIPPING *Copenhagen.*

Survey Fee ... £ 4 : 4 : 4 When applied for, 19
Travelling Expenses (if any) £ 2 : 0 : 4 When received, 15.11.29

RWF Fawcett
Engineer Surveyor to Lloyd's Register of Shipping.

Committee's Minute *TUE. 6 MAY 1930*
Assigned *See bpu 76 8227*