

# REPORT ON BOILERS.

61681  
No. 60740  
FEB 22 1939

Received at London Office  
Date of writing Report 19 When handed in at Local Office 20:2:39 Port of Glasgow  
No. in Survey held at Annan Date, First Survey Last Survey 16.2.1939  
Reg. Book. on the TW. SC. FERRY "ABERGRAIG" (Number of Visits) Gross 445 Net 191  
Master D. C. Built at Paisley By whom built Fleming & Ferguson When built 1939  
Boilers made at Annan By whom made Buchanan & Co Annan Ltd (Nº 14212) When made 1939  
Owners DUNDEE HARBOUR TRUST Port belonging to DUNDEE

VERTICAL DONKEY BOILER— No. one Description Buchananette Manufacturers of steel Steel Co of Scotland Ltd  
Made at By whom made When made Where fixed Working pressure 100  
Tested by hydraulic pressure to 200 Date of test 16-2-39 No. of Certificate 20346 Fire grate area 2.884 Description of safety valves  
No. of safety valves Area of each Pressure to which they are adjusted If fitted with easing gear If steam from main boilers can  
Enter the donkey boiler Diameter of donkey boiler 2'6" Length 5'6" Material of shell plates S Thickness 7/16"  
Range of tensile strength 26-30 tons Description of riveting long. seams WR Lap Diameter of rivet holes 25/32" Whether punched or  
Drilled drilled Pitch of rivets 2" Lap of plating 2 3/8" Per centage of strength of joint Rivets 48 Working pressure of shell by  
Rules 151.5 lb Thickness of shell crown plates 3/4" Radius of do. 2'6" No. of stays to do. Diameter of stays Diameter of  
Furnace—Top 23 1/2" Bottom 24 3/4" Length of furnace 11" Thickness of furnace side plates 7/16" Description of joint Elec weld Working  
Pressure of furnace by rules 150 Thickness of Ogee ring Working pressure of Ogee ring by rules Thickness of furnace  
Crown plates 7/16" Radius of do. 11 3/4" Stayed by Hemisphere Diameter of uptake 6" Thickness of uptake  
Plates 3/8" Thickness of tube plates front 7/16" back 7/16" Mean pitch of stay tubes in nest 5.483" Pitch in outer vertical rows 4"  
Diameter of tube holes FRONT stay 2 15/16" BACK stay 2 3/4" Working pressure of tube plates by rules F118. B131 Tubes: Material steel  
External diameter stay 2 3/4" plain 2 1/2" Thickness stay 11/32" plain 10 L.S.G. No. of threads per inch 9 Pitch of tubes 4" x 3 3/4"  
Working pressure by rules 175 Manhole compensation: Size of opening in shell plate Bolted crown Section of compensating  
No. of rivets and diameter of rivet holes 40 @ 7/8" Outer row pitch at ends

FOR COORINATION & GOVERNMENT DESCRIPTION  
T. A. R. Manufacturer.  
WORKS MANAGER

Dates { During progress of work in shops - - }  
Survey while building { During erection on board vessel - - }  
Total No. of visits 2  
Surveyor on regular attendance minimum four visits

Drawing No. 23960

Is the approved plan of boiler forwarded herewith yes

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

The materials and workmanship are good  
The boiler has been constructed under special survey - to the order of Messrs Fleming & Ferguson Ltd of Paisley and intended for a ferry - building for the Dundee Harbour Trust

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

MONTHLY ACCOUNT

Sh. Davis  
Engineer Surveyor to Lloyd's Register of Shipping.

Committee's Minute GLASGOW 21 FEB 1939  
Assigned TRANSMIT TO LONDON

GLASGOW 31 OCT 1939  
SEE ACCOMPANYING MACHINERY REPORT

Lloyd's Register Foundation