

# ECONOMISER. REPORT ON BOILERS.

No. 36000

AUG 1950

Date of writing Report 19... When handed in at Local Office 29. 8. 1950 Port of Glasgow  
 No. in Survey held at Clydebank Date, First Survey See Machy rpt Last Survey 19...  
 Req. Book 95005 on the "OTTAWA" Tons Gross 11575 Net 7569.  
 Built at Clydebank By whom built John Brown & Co. Ltd. Yard No. 654 When built 1950.  
 Economiser made at Clydebank By whom made John Brown & Co. Ltd. Economiser No. 654 When made 1950.  
 Owners Unitas, Inc. Port belonging to Panama City.

VERTICAL ~~DONKEY BOILER~~ <sup>Thinshell Tube Economiser</sup> No. 1 Description Thinshell Tube Manufacturers of steel Colvilles Ltd  
 Made at Clydebank By whom made John Brown & Co. Ltd When made 1950 Where fixed Base of Furnace Design Working pressure 200 lb/sq in  
 tested by hydraulic pressure to 350 lb Date of test 14.6.50 No. of Certificate 23183 Fire grate area ✓ Description of safety valves 2 @ 1 1/2" I.H.L.  
 No. of safety valves 2 Area of each 2.340" Pressure to which they are adjusted 195 lb If fitted with easing gear yes If steam from main boilers can enter the donkey boiler ✓ Diameter of donkey boiler 4'-0" Length 13'-10 1/4" Material of shell plates Steel Thickness 1 1/4"  
 Range of tensile strength 28/32 tons Description of riveting long. seams Class I Fusion welding ✓ Diameter of rivet holes ✓ Whether punched or drilled ✓ Pitch of rivets ✓ Lap of plating ✓ Per centage of strength of joint Plates ✓ Working pressure of shell by rules Approved Thickness of shell crown plates 15/16" Radius of do. 48" No. of stays to do. ✓ Diameter of stays ✓ Diameter of furnace—Top ✓ Bottom ✓ Length of furnace ✓ Thickness of furnace side plates ✓ Description of joint ✓ Working pressure of furnace by rules ✓ Thickness of Ogee ring ✓ Working pressure of Ogee ring by rules ✓ Thickness of furnace crown plates ✓ Radius of do. ✓ Stayed by ✓ Diameter of uptake ✓ Thickness of uptake plates ✓ Thickness of tube plates front ✓ Circumferential Mean pitch of tubes in nest 6.25" Pitch in vertical rows 6"  
 Diameter of tube holes FRONT 2 1/2" BACK 2 1/2" Working pressure of tube plates by rules approved Tubes: Material Steel  
 External diameter plain 2 1/2" Thickness plain 9 w/g No. of threads per inch ✓ Pitch of Tubes ✓  
 Working pressure by rules ✓ Manhole compensation; Size of opening in shell plate ✓ Section of compensating ring ✓ No. of rivets and diameter of rivet holes ✓ Outer row pitch at ends ✓

John Brown &amp; Company Limited

The foregoing is a correct description,  
 Secretary Manufacturer.

Drawing No. 5634.

Dates of Survey while building  
 During progress of work in shops -  
 During erection on board vessel -  
 Total No. of visits

See Machy report

Is the approved plan of boiler forwarded herewith yes.

GENERAL REMARKS (State quality of workmanship, opinions as to class, &c.) This economiser has been constructed under special survey in accordance with the requirements of the Rules & the approved plans. The materials & workmanship are good. The economiser has been efficiently installed on board the vessel & the safety valves adjusted under steam to 195 lb/sq in.

Survey Fee ... See Machy rpt.

When applied for 19...

Travelling Expenses (if any) £

When received 19...

Committee's Minute GLASGOW 30 AUG 1950

Assigned

SEE ACCOMPANYING MACHINERY REPORT

J. D. Johnston  
 Engineer Surveyor to Lloyd's Register of Shipping.

003687-003697-0184

Lloyd's Register  
 Foundation