

REPORT ON BOILERS.

No. 76633

8 FEB 1951

Date of writing Report 27. 1. 51 When handed in at Local Office 27. 1. 51 Port of GLASGOW  
No. in Survey held at Annan Date, First Survey 21<sup>st</sup> Sept 1950 Last Survey 23<sup>rd</sup> January 1951  
Reg. Book on the M.V. "CALLISTO" (Number of Visits 17)  
Built at By whom built Yard No. When built  
Boilers made at Annan By whom made Cochran & Co., Annan, Ltd Boiler No. 18966 When made 1951  
Owners Port belonging to

VERTICAL DONKEY BOILER— No. one Description composite Manufacturers of steel Colvilles Ltd.  
Made at Annan By whom made Cochran & Co., Annan, Ltd. When made 1951 Where fixed Working pressure 150 lb.  
tested by Hydraulic pressure to 275 lbs Date of test 23.1.51 No. of Certificate 23338 Fire grate area 0.6 Description of safety valves Enclosed Spring  
No. of safety valves 2 Area of each 7.06 sq. in. Pressure to which they are adjusted If fitted with easing gear Yes If steam from main boilers can enter the donkey boiler Steel  
Diameter of donkey boiler 8'-0" Length 20'-3" Material of shell plates S.M. Thickness 1.1/16", 3/4"  
Range of tensile strength 28-32 tons Description of riveting long. seams D.R. lap, / Diameter of rivet holes 1.1/8" Whether punched or drilled drilled Pitch of rivets 3.025" Lap of plating 5 3/8" Per centage of strength of joint Plates 62.82 Working pressure of shell by rules 163.4 Thickness of shell crown plates 1.5/32" Radius of do. 4'-0" No. of stays to do. none Diameter of stays - Diameter of furnace - Top - Bottom 7'-0" Length of furnace Thickness of furnace side plates 25/32" Description of joints seamless Working pressure of furnace by rules 157.1 Thickness of Ogee ring 1.5/32" Working pressure of Ogee ring by rules 157.5" Thickness of furnace crown plates 25/32" Radius of do. 3'-6" Stayed by - Diameter of uptake 20"x23.1/2" Thickness of uptake plates 5/8" Thickness of tube plates 1.1/4" Mean pitch of stay tubes in nest as approved Pitch in outer vertical rows 5.3/4" & 7.1/4"  
Diameter of tube holes FRONT stay 2.3/16", 1.1/16" BACK stay 2", 1 1/2" Working pressure of tube plates by rules F 156.7 & 151.7 B 194.1 lbs Tubes: Material steel  
plain 2.1/16", 1.13/16" plain 2", 1 1/2" & 230.31  
External diameter 2", 1 1/2" Thickness 11/32" No. of threads per inch 9 Pitch of Tubes as approved  
Working pressure by rules 215 lbs Manhole compensation; Size of opening in shell plate 21" x 17" Section of compensating ring 8 1/2" x 1.1/16" No. of rivets and diameter of rivet holes 40 @ 1.1/8" Outer row pitch at ends 4.32"  
flanged

The foregoing is a correct description, *Carax.* Manufacturer.

Dates of Survey while building During progress of work in shops 1950 Sep. 21-27 Oct. 5-12-19 Nov. 2-9-16-23-30 Dec. 7-14-21-28, 1951 Jan. 14-18-23  
During erection on board vessel - -  
Total No. of visits Is the approved plan of boiler forwarded herewith Yes.

GENERAL REMARKS (State quality of workmanship, opinions as to class, &c.) This boiler has been constructed under Special Survey in accordance with the approved plan. The material and Workmanship are good.  
The Boiler has been built to the order of Messrs. North Eastern Marine Engineering Co., (1938) Ltd., Wallsend, for their Contract No. 3203.

Survey Fee ... £ 14 : - : - MONTHLY ACCOUNT  
Travelling Expenses (if any) £ : : : When applied for 19  
When received 19

Committee's Minute

Assigned

GLASGOW 7 FEB 1951

Deferred for comp.

Engineer Surveyor to Lloyd's Register of Shipping.

TUES. 31 JUL 1951

Lloyd's Register Foundation