

Rpt. 5a.

# REPORT ON BOILERS.

NUDDEA

(See by form 23723)  
No. 40 058.

Received at London Office

WED. JUN 9 1920

Date of writing Report

191

When handed in at Local Office

5. 6. 1920 Port of Glasgow

No. in Survey held at

Glasgow

Date, First Survey

8-9-19

Last Survey

12. 3. 1920.

1920.

Reg. Book.

21414

on the Donkey Boiler No 565 for T.S.S. NARDANA

(Number of Visits 18)

Gross Tons

Net

Master

Built at Glasgow

By whom built

Barclay Curle & Co Ltd

When built 1919

Engines made at

Glasgow

By whom made

do

When made 1919

Boilers made at

do

By whom made

do

When made 1920

Registered Horse Power

Owners

British India Steam Navigation Co Ltd

Port belonging to

Glasgow

MULTITUBULAR BOILERS—MAIN, AUXILIARY OR DONKEY.—Manufacturers of Steel do Belleville Soud & Co

(Letter for record 3) Total Heating Surface of Boilers 1519 sq ft Is forced draft fitted No. and Description of Boilers one single ended Working Pressure 110 lb Tested by hydraulic pressure to 220 lb Date of test 12. 3. 20

No. of Certificate 15174 Can each boiler be worked separately Area of fire grate in each boiler 44.25 sq ft No. and Description of safety valves to each boiler

Are they fitted with easing gear In case of donkey boilers, state whether steam from main boilers can enter the donkey boiler

Smallest distance between boilers or uptakes and bunkers or woodwork Mean dia. of boilers 12.6 Length 10.6

Material of shell plates Steel Thickness 1 1/16 Range of tensile strength 28/32 tons Are the shell plates welded or flanged No

Descrip. of riveting: cir. seams do Lap long. seams Tub. Butt Diameter of rivet holes in long. seams 7/8 Pitch of rivets 5 3/8

Gap of plates or width of butt straps 13 5/8 Per centages of strength of longitudinal joint rivets 96.8 Working pressure of shell by rules 147

Size of manhole in shell 16x12 Size of compensating ring 33x29x3/4 No. and Description of Furnaces in each boiler 2 Plain Material Steel Outside diameter 3-10 5/16 Length of plain part top 6-4 Thickness of plates crown 21 Bottom 32

Description of longitudinal joint Weld No. of strengthening rings Working pressure of furnace by the rules 119 Combustion chamber plates: Material Steel Thickness: Sides 1/2 Back 1/2 Top 1/2 Bottom 1/5 Pitch of stays to ditto: Sides 8x8 Back 8x8 1/6

Top 8x8 1/6 If stays are fitted with nuts or riveted heads Nuts Working pressure by rules 127 Material of stays Steel Diameter at smallest part 9/16 Area supported by each stay 68 1/2 Working pressure by rules 112 End plates in steam space: Material Steel Thickness 7/8

Pitch of stays 17 1/2 x 7 1/2 How are stays secured 2 nuts Working pressure by rules 112 Material of stays Steel Diameter at smallest part 3 2/16

Area supported by each stay 350 sq in Working pressure by rules 110 Material of Front plates at bottom Steel Thickness 1 1/16 Material of Lower back plate Steel Thickness 1/16 Greatest pitch of stays 14 Working pressure of plate by rules 121 Diameter of tubes 3 1/4

Pitch of tubes 4 3/8 x 4 1/2 Material of tube plates Steel Thickness: Front 13/16 Back 1/16 Mean pitch of stays 11 1/8 Pitch across wide water spaces 14 1/4 Working pressures by rules 116 Girders to Chamber tops: Material Steel Depth and thickness of girder at centre (2) 7 1/2 x 5 1/2 Length as per rule 31 1/16 Distance apart 8 7/16 Number and pitch of Stays in each (3) 8

Working pressure by rules 110 Superheater or Steam chest; how connected to boiler None Can the superheater be shut off and the boiler worked separately

Diameter Length Thickness of shell plates Material Description of longitudinal joint Diam. of rivet holes Pitch of rivets Working pressure of shell by rules Diameter of flue Material of flue plates Thickness

If stiffened with rings Distance between rings Working pressure by rules End plates: Thickness How stayed

Working pressure of end plates Area of safety valves to superheater Are they fitted with easing gear

Survey request form FOR BARCLAY, CURLE & CO., LTD. The foregoing is a correct description, No 2478 attached John Alexander Manager Manufacturer.

Dates of Survey During progress of work in shops 1919. Sept. 8. 17. Oct. 1. 2. 8. 15. Nov. 4. 11. 19. Dec. 16. 24. 31. Is the approved plan of boiler forwarded herewith with duplicate Boiler fitted NUDDEA

while building During erection on board vessel 1920. Jan. 17. 26. Feb. 5. 12. 19. Mar. 12. Total No. of visits 18.

GENERAL REMARKS (State quality of workmanship, opinions as to class, &c.) This boiler has been built under special survey. Materials and workmanship are good. It is not yet decided at which Port boiler will be fitted to the vessel.

Survey Fee ... £ 5 : 1 : } When applied for, 8. 6. 1920.  
Travelling Expenses (if any) £ : : } When received, 27. 7. 1920.

asbasling 2020  
Engineer Surveyor to Lloyd's Register of Shipping.

Committee's Minute GLASGOW 8 - JUN 1920

Assigned TRANSMIT TO LONDON

FRI 27 JUN 1920  
FRI 3 AUG 1923  
Lloyd's Register Foundation

WED. 11 JUN 1924

WS25-0175