

REPORT ON BOILERS.

No. 1901

Received at London Office

TUE 24 MAY 1921

Date of writing Report 14th May 1921 When handed in at Local Office 21st May 1921 Port of Barrow-in-Furness
 No. in Survey held at Barrow-in-Furness Date, First Survey 21st Sept 1920 Last Survey 12th May 1921
 Reg. Book. 8164 on the M.V. "SEMINOLE" (Number of Visits 43) Gross 6923.12 Tons Net 4862.6
 Master G. C. Hudson Built at Barrow-in-Furness By whom built Vickers Ltd. When built 1921
 Engines made at Barrow-in-Furness By whom made Vickers Ltd. when made 1921
 Boilers made at Barrow-in-Furness By whom made Vickers Ltd. when made 1921
 Registered Horse Power 1 Owners Anglo-American Oil Co. Ltd. Port belonging to Barrow

MULTITUBULAR BOILERS ~~MAIN, AUXILIARY OR DONKEY~~ — Manufacturers of Steel B. Beadmore & Co. H. Bessemer & Co.

(Letter for record (r)) Total Heating Surface of Boilers 2551 sq. ft. Is forced draft fitted yes No. and Description of

Boilers One cylindrical multitubular Working Pressure 120 lbs. Tested by hydraulic pressure to 240 lbs. Date of test 22-12-20

No. of Certificate 316 Can each boiler be worked separately ✓ Area of fire grate in each boiler Oil fired No. and Description of

safety valves to each boiler Three - Spring loaded Area of each valve 12.56 sq. in. Pressure to which they are adjusted 123 lbs.

Are they fitted with easing gear yes 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 6'-0" Inside Mean dia. of boilers 15'-6" Length 11'-0"

Material of shell plates Steel Thickness 7/8" Range of tensile strength 28/32 tons Are the shell plates welded or flanged No

Descrip. of riveting: cir. seams D.R. Lap long. seams J.R. Double Butt Diameter of rivet holes in long. seams 5/16" Pitch of rivets 6 3/4"

Lap of plates or width of butt straps 14" Per centages of strength of longitudinal joint rivets 86.87% Working pressure of shell by plate 86.11%

rules 122 lbs. Size of manhole in shell In End plate only Size of compensating ring Flanged ring 25/32" No. and Description of Furnaces in each

boiler 3 - Motison Material Steel Outside diameter 4'-1 1/4" Length of plain part top Thickness of plates crown 7/16" bottom ✓

Description of longitudinal joint Weld No. of strengthening rings ✓ Working pressure of furnace by the rules 136 lbs. Combustion chamber

plates: Material Steel Thickness: Sides 7/16" Back 7/16" Top 7/16" Bottom 1 1/16" Pitch of stays to ditto: Sides 9 1/2" x 9 1/2" Back 10 1/2" x 8 1/4"

Top 9 1/2" x 9 1/2" If stays are fitted with nuts or riveted heads Nuts Working pressure by rules 120 lbs. Material of stays Iron Diameter at

smallest part 1 1/16" Area supported by each stay 90.25 sq. in. Working pressure by rules 168 lbs. End plates in steam space: Material Steel Thickness 1 7/32"

Pitch of stays 23 1/2" x 21" How are stays secured Double nuts Working pressure by rules 125 lbs. Material of stays Steel Diameter at smallest part 2 3/4"

Area supported by each stay 493.5 sq. in. Working pressure by rules 132 lbs. Material of Front plates at bottom Steel Thickness 2 7/32" Material of

Lower back plate Steel Thickness 3/4" Greatest pitch of stays 13 1/2" x 10 1/2" Working pressure of plate by rules 172 lbs. Diameter of tubes 3"

Pitch of tubes 4 1/8" x 4 1/8" Material of tube plates Steel Thickness: Front 2 5/32" Back 3/4" Mean pitch of stays 12 3/8" Pitch across wide

water spaces 13 1/2" Working pressures by rules 132 lbs. Girders to Chamber tops: Material Steel Depth and thickness of

girder at centre 8 9/16" x 1 1/2" Length as per rule 37" Distance apart 9 1/2" Number and pitch of Stays in each 3 - 9 1/2"

Working pressure by rules 134 lbs. Superheater or Steam chest; how connected to boiler Nil 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 ✓

The foregoing is a correct description,

FOR VICKERS LIMITED,

Mr. Barister Manufacturer.

Dates of Survey: During progress of work in shops -- Sept 1920 21-27-29 Oct. 4-6-18-25-27-29 Nov. 1-4-8 Is the approved plan of boiler forwarded herewith yes
 while building: During erection on board vessel -- Jan 1921 10-11-17-20-27 Feb. 11-16-24 Mar. 8-22 Total No. of visits 43

GENERAL REMARKS (State quality of workmanship, opinions as to class, &c. This boiler has been constructed under special survey & the materials & workmanship are sound & good. It has been tested by hydraulic pressure to 240 lbs. & found tight & sound at that pressure. After being efficiently fitted on board its safety valves were adjusted under steam to 123 lbs. the thicknesses of the adjusting washers being Port 17/32" Centre 7/32" Head 17/32". The boiler is fitted for oil fuel, flash point above 150° Fahr.

For opinions as to class see Machinery Report.

Survey Fee ... £ See When applied for, 19
 Travelling Expenses (if any) £ mach's When received, 19
report

John Houston
 Engineer Surveyor to Lloyd's Register of British and Foreign Shipping.

TUE. MAY. 31 1921

Committee's Minute

Assigned

See minute on 7.8 report expenses



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Lloyd's Register

W488-0058