

REPORT ON BOILERS.

Got. No. 6492
No. 88605

Received at London Office 8 FEB 1925 26 JUL 1926

Date of writing Report 3 FEB 1925 When handed in at Local Office 3rd Feb 1925 Port of London

No. in Survey held at Loughborough Date, First Survey 15th DECEMBER 1924 Last Survey 2nd Feb 1925

Reg. Book Supplement 88918 on the Donkey Boiler No. 4/45 on the Tangle Line Motorship "ERIK FRISSELL" Tons {Gross 5066 Net 2862

Built at Gothenburg By whom built A/B Götaverken Yard No. 7/5 364 When built 1925

Engines made at Gothenburg By whom made A/B Götaverken Engine No. 701 When made 1926

Boilers made at By whom made Boiler No. When made

Owners Trafike A/B Grängesberg-Oxelöund Port belonging to Stockholm

VERTICAL DONKEY BOILER.

Made at Loughborough By whom made W. W. Cottman & Co. Ltd. Boiler No. 4/45 When made 1925 Where fixed

Manufacturers of Steel David Colville & Sons Ltd.

Total Heating Surface of Boiler 12.15 m² = 131 Sq. ft. Is forced draught fitted Coal or Oil fired Oil

No. and Description of Boilers One Vertical Cross Tube Working pressure 85 lb

Tested by hydraulic pressure to 140 lb Date of test 19th January 1925 No. of Certificate 1280

Area of Firegrate in each Boiler No. and Description of safety valves to each boiler Double marine spring 2 dia

Area of each set of valves per boiler {per rule 3.14 sq. inch as fitted Pressure to which they are adjusted 87 lb Are they fitted with easing gear yes

State whether steam from main boilers can enter the donkey boiler Smallest distance between boiler or uptake and bunkers

woodwork Is oil fuel carried in the double bottom under boiler Yes Smallest distance between base of boiler and tank top plating

About 3'-0" Is the base of the boiler insulated Largest internal dia. of boiler 4'-6" Height 12'-4"

Shell plates: Material Steel Tensile strength 28/32 tons Thickness 3"

Are the shell plates welded or flanged No Description of riveting: circ. seams {end S.D. Lap inter. long. seams D.R. Lap

Dia. of rivet holes in {circ. seams 13/16 Pitch of rivets 2 3/4 Percentage of strength of circ. seams {plate 59.3 rivets 57 of Longitudinal joint {plate 68.5 rivets 89 combined

Working pressure of shell by rules 127 lb Thickness of butt straps {outer inner

Shell Crown: Whether complete hemisphere, dished partial spherical, or flat Dished partial spherical Material Steel

Tensile strength 26/30 tons Thickness 3/16 Radius 4'-6" Working pressure by rules 122 lb

Description of Furnace: Plain, with spherical, or dished crown yes Material Steel Tensile strength 26/30 tons

Thickness 1/2" External diameter {top 3'-9" bottom 4'-0" Length as per rule 2'-8" 23'-10" dia Working pressure by rules 113 lb

Pitch of support stays circumferentially 8.5" and vertically 2'-8" Are stays fitted with nuts or riveted over riveted

Diameter of stays over thread 1 1/8" Radius of spherical or dished furnace crown 3'-9" x 2' Working pressure by rule 130 lb

Thickness of Ogee Ring 1/2 furnace flanged Diameter as per rule {D d Working pressure by rule

Combustion Chamber: Material Tensile strength Thickness of top plate

Radius if dished Working pressure by rule Thickness of back plate Diameter if circular

Length as per rule Pitch of stays Are stays fitted with nuts or riveted over

Diameter of stays over thread Working pressure of back plate by rules

Tube Plates: Material {front back Tensile strength Thickness Mean pitch of stay tubes in nests

comprising shell, Dia. as per rule {front back Pitch in outer vertical rows {Dia. of tube holes FRONT {stay plain BACK {stay plain

each alternate tube in outer vertical rows a stay tube Working pressure by rules {front back

Orders to combustion chamber tops: Material Tensile strength

Depth and thickness of girder at centre Length as per rule

Distance apart No. and pitch of stays in each Working pressure by rule

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Crown stays: Material ☒ Tensile strength _____ Diameter { at body of stay, _____ or over threads. _____

No. of threads per inch _____ Area supported by each stay _____ Working pressure by rules _____

Screw stays: Material Steel ☒ Tensile strength 36/30 tons Diameter { at turned off part, _____ or over threads. 1 1/2 No. of threads per inch 14

Area supported by each stay ☒ Working pressure by rules ☒ Are the stays drilled at the outer ends _____

Tubes: Material ☒ External diameter { plain _____ stay _____ Thickness { _____ Working pressure by rules _____

No. of threads per inch _____ Pitch of tubes _____

Manhole Compensation: Size of opening in shell plate 16 x 12 Section of compensating ring 15 x 2 No. of rivets and diameter _____

of rivet holes 4 1/2 13/16 Outer row rivet pitch at ends 3 Depth of flange if manhole flanged _____

Uptake: External diameter 13 Thickness of uptake plate 1/2

Cross Tubes: No. Four External diameters { 10 Thickness of plates 3/8

Have all the requirements of Sections 14 to 23 inclusive for boilers been complied with ☒

The foregoing is a correct description,

Walter D. Coleman & Co Ltd Manufacturer
Walter D. Coleman Director

Dates of Survey { During progress of work in shops - - 1924 DEC 15 22 (1925) JAN 6 19 FEB 2 Is the approved plan of boiler forwarded herewith Withdawn
while building { During erection on board vessel - - 1925 June 23, July 14. (If not state date of approval.) Rpt No 88516
Total No. of visits 5 + 2 also invoice
M/V. "Murjek."

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

This boiler has been built under special survey in accordance with the rules and the approved plan. The materials and workmanship are good and the boiler was sound and tight under hydraulic test. The boiler is intended for the above vessel being built to class.

This boiler was subsequently examined under 80 lbs of steam pressure supplied by works boiler & found satisfactory. The testing under steam before despatch is the makers general practice.

This donkey boiler has been fitted on board this vessel under my inspection and to my satisfaction.

Survey Fee £ 4.40 When applied for, 8 FEB 1925
Travelling Expenses (if any) £ 3.10 When received, 23.2.1926

E. J. Stoddart. G. B. Sanders
Engineer Surveyors to Lloyd's Register of Shipping.

Committee's Minute TUES. 27 JUL 1926

Assigned

See Log. F.B. 416492



Lloyd's Register Foundation