

Brooke Marine Ltd - yard N° 243 - M.Y. MUKSUN.  
Attach to Ipswich Rpt N° 133835.

# REPORT ON BOILERS.

No. 34131

7 SEP 1955

Date of writing Report 3.9.55 When handed in at Local Office 5.9.55 Port of Glasgow  
No. in Survey held at Annan Date, First Survey 31<sup>st</sup> Dec. 1954 Last Survey 1<sup>st</sup> September 1955  
Reg. Book 18903 on the Motor Trawler MUKSUN. Ship 243 Tons Gross 1956  
Built at Lowestoft By whom built Brooke Marine Ltd. When built 1955  
Boilers made at Annan By whom made Cochran & Co. Annan, Ltd. Boiler No. 20607 When made 1955  
Owners 1/0 Sudimport Port belonging to Humansk

VERTICAL DONKEY BOILER— No. one Description multitubular Manufacturers of steel Colvilles Ltd.  
Made at Annan By whom made Cochran & Co. Annan, Ltd. When made 1955 Where fixed 5.5 forward Working pressure 100 lb.  
tested by hydraulic pressure to 200 Date of test 1.9.55. No. of Certificate 24509 Total heating surface of boilers 400 sq. ft Area of firegrate in  
each boiler 0. F. No. and description of safety valves on each boiler 2 Area of each set of valves per boiler 6.28 sq. ft Pressure to which  
they are adjusted 100 psi If fitted with easing gear Yes If steam from main boilers can enter the donkey boiler None Diameter of boiler 6'-0"  
Length 11'-9" Material of shell plates steel Thickness 7/16, 17/32" Range of tensile strength 28-32 Description of riveting long.  
seams D.R. Lap Diameter of rivet holes 25/32" Whether punched or drilled drilled Pitch of rivets 2.71, 2.69, 2.67 Lap of  
plating 3 1/2" Thickness of shell crown plates 21/32" Radius of do. 6'-0" No. of stays to do. nil Diameter of stays - Diameter of  
furnace—Top - Bottom 5'-0" Length of furnace - Thickness of furnace side plates 1/2" Description of joint seamless Thickness  
of Ogee ring 27/32 Thickness of furnace crown plates 1/2" Radius of do. 2'-6" Stayed by hemisphere Diameter of  
uptake 13 1/2" x 21 1/2" Thickness of uptake plates 1/2" Thickness of tube plates 25/32" Mean pitch of stay tubes in nest as appvd.  
Pitch in outer vertical rows 5.91" Diameter of tube holes FRONT 2.3/16" BACK 2.1/16" Tubes: Material steel  
External diameter 2" Thickness 11/32" No. of threads per inch 9 Pitch of Tubes 3.089" x 2.955  
Manhole compensation; Size of opening in shell plate 16" x 21 1/2" Section of compensating ring 5.15/32" x 1" No. of rivets and  
diameter of rivet holes 40 of 25/32" Outer row pitch at ends 3.89"

For COCHRAN & CO. ANNAN, LTD.  
The foregoing is a correct description, *[Signature]*  
Technical Sales Manager Manufacturer.

Dates of Survey while building  
During progress of work in shops 1954. 6.11.24. 21.28. 4.11.14. 26. Dec. 2.9.16. 30. 1955. Jan. 6.16. 20. 27. Feb. 1.  
During erection on board vessel 24.30. July 4.14. Aug. 3.11.14. 24. Sep. 1.  
Total No. of visits 42.  
Drawing No. 40717A  
Is the approved plan of boiler forwarded herewith

Sent to London

GENERAL REMARKS (State quality of workmanship, opinions as to class, &c.) This boiler has been constructed under special Survey in accordance with the Society's Rules and approved plans.  
The materials and workmanship are good.

This boiler has now been installed in the Motor Trawler "MUKSUN", Brooke Marine Ltd - yard N° 243. The boiler has been examined under steam and the safety valves adjusted to 100 lb/sq. in. The oil fuel burning and steam smothering arrangements were examined and tested under working conditions and found satisfactory.

*[Signature]*  
Lowestoft 29/9/55

Survey Fee ... £ 10 : - : - When applied for 19  
Travelling Expenses (if any) £ : : : When received 19

*[Signature]*  
Engineer Surveyor to Lloyd's Register of Shipping.

FRIDAY 28 SEP 1955

Lloyd's Register of Shipping  
Foundation

Committee's Minute

Assigned

Deferred for completion