

Received at London Office 14 APR 1954

Date of writing Report		When handed in at Local Office		Port of		ABERDEEN.	
15, 16, 17, 18, 19, 20, 21, 22, 23, 24, 25, 26, 27, 28, 29, 30, 31, 32, 33, 34, 35, 36, 37, 38, 39, 40, 41, 42, 43, 44, 45, 46, 47, 48, 49, 50, 51, 52, 53, 54, 55, 56, 57, 58, 59, 60, 61, 62, 63, 64, 65, 66, 67, 68, 69, 70, 71, 72, 73, 74, 75, 76, 77, 78, 79, 80, 81, 82, 83, 84, 85, 86, 87, 88, 89, 90, 91, 92, 93, 94, 95, 96, 97, 98, 99, 100	31:3:1954	31:3:1954	54	54	17:3:52	31:3:54	1954
No. in Survey held at		Aberdeen and Renfrew		Date, First Survey		Last Survey	
1, 4g. Book.		H.M. Twin Screw Steam Tug "SAMSON"		(Number of Visits)		Gross 855	
on the				Tons		Net 184	
At		Aberdeen		By whom built		A Hall & Co Ltd.	
Engines made at		do		Yard No.		741	
Boilers made at		Renfrew		By whom made		do.	
Horse Power		520 MN		Engine No.		153/4	
				Boiler No.		10/641	
				When built		1954	
				When made		1954	
				When made		1953.	
				Port belonging to		---	

ATER TUBE BOILERS—MAIN, AUXILIARY, OR DONKEY.—Manufacturers of Steel Colvilles Ltd.

te of Approval of plan. 21-6-52 etc No. and Description or Type

Boilers Two, Integral Furnace Type Working Pressure 270 lb Tested by Hydraulic Pressure to 455 Date of Test 20:4:53

of Certificate 23881, 23863 Can each boiler be worked separately. yes Total Heating Surface of Boilers 6470 sq ft.

forced draught fitted. yes Area of Fire Grate (coal) in each Boiler Three. B and W. Iowa Type.

and type of burners (oil) in each boiler No. and description of safety valves on as appd. ✓

ch boiler 20. 122" double full Box Area of each set of valves per boiler { per rule as fitted 6.282 sq ins. ✓ Pressure to which they

e adjusted 253/257 lbs ✓ Are they fitted with easing gear yes ✓ In case of donkey boilers state whether steam from main boilers can enter

e donkey boiler. smallest distance between boilers or uptakes and bunkers or woodwork 6ft. Height of boiler 16'4"

idth and length W 14'6" L 16'4" Steam Drums:—Number in each boiler One Inside diameter 3'5 13/16"

ickness of plates Tube 1 7/16" Wrapper 9/16" Range of tensile strength 28-32 tons Are drum shell plates welded

flanged. welded If fusion welded, state name of welding firm Babcock and Wilcox Ltd. Have all the requirements of the Rules

r Class I vessels been complied with. yes Description of riveting:—Circ. seams. long. seams. ---

iameter of rivet holes in long. seams. Pitch of rivets. Thickness of straps. Percentage strength of

ng. joint:—Plate Rivet. Diameter of tube holes in drum 2", 1 1/2" 1 1/8" Pitch of tube holes 3" 2 1/4"

ercentage strength of shell in way of tubes 29.8 Steam Drum Heads or Ends:—Range of tensile strength 28-32 tons 1 1/8"

ickness of plates 3/4" Radius or how stayed 2'0" Size of manhole or handhole 16" x 12" Water Drums:—Number

each boiler. Inside diameter. Thickness of plates. Range of tensile strength. Are drum shell plates

elded or flanged. If fusion welded, state name of welding firm. Have all the requirements of the Rules

r Class I vessels been complied with. Description of riveting:—Circ. seams. long. seams.

iameter of rivet holes in long. seams. Pitch of rivets. Thickness of straps.

ercentage strength of long. joint:—Plate Rivet. Diameter of tube holes in drum. Pitch of tube holes.

ercentage strength of drum shell in way of tubes Water Drum Heads or Ends:—Range of tensile strength 28-32 tons

ickness of plates 3/4" Radius or how stayed 2'0" Size of manhole or handhole 16" x 12"

leaders or Sections:—Number One Material S.D steel Thickness 5 1/2" x 5 1/2" Tested by hydraulic pressure to 455 lbs

ubes:—Diameter 4", 2", 1 1/2" 1 1/8" Thickness 5, 8, 11, 12 W.G. Number 12, 86, 144, 901. Steam Dome or Collector:—Description of

oint to shell. Inside diameter. Thickness of shell plates. Range of tensile

trength. Description of longitudinal joint. If fusion welded, state name of welding

rm. Have all the requirements for the Rules for Class I vessels been complied with. Diameter of rivet holes

itch of rivets. Thickness of straps. Percentage strength of long. joint. plate. rivet.

Crown or End Plates:—Range of tensile strength. Thickness. Radius or how stayed.

SUPERHEATER, Drums or Headers:—Number in each boiler None Inside diameter.

Thickness. Material. Range of tensile strength. Are drum shell plates welded

r flanged. If fusion welded, state name of welding firm. Have all the requirements of the Rules

or Class I vessels been complied with. Description of riveting:—Circ. seams. long. seams.

Diameter of rivet holes in long. seams. Pitch of rivets. Thickness of straps. Percentage strength of

long. joint:—Plate Rivet. Diameter of tube holes in drum. Pitch of tube holes. Percentage strength of

drum shell in way of tubes Drum Heads or Ends:—Thickness. Range of tensile strength.

Radius or how stayed. Size of manhole or handhole. Number, diameter, and thickness of tubes.

Tested by hydraulic pressure to. Date of test. Is a safety valve fitted to each section of the superheater which

can be shut off from the boiler. No. and description of safety valves. Area of each set

of valves. Pressure to which they are adjusted. Is easing gear fitted.

Spare Gear. Has the spare gear required by the Rules been supplied. yes

The foregoing is a correct description,
for Babcock and Wilcox. Manufacturer.

Dates	{	During progress of	}
of Survey		work in shops - -	
while	{	During erection on	}
building		board vessel - - -	

Is the approved plan of boiler forwarded herewith

Total No. of visits

Is this boiler a duplicate of a previous case..... If so, state vessel's name and report No.

Is this boiler a duplicate of a previous case..... If so, state vessel's name and report No.

GENERAL REMARKS (State quality of workmanship, opinions as to class, &c. These boilers have been built under Special Survey in accordance with the Rules and approved plans, and the materials and workmanship are good (Glasgow Rpt 80569) . Boilers securely fitted in vessel. tried under steam, safety valves adjusted and all found in good order.

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

Constructional particulars from
Glasgow Rpt No 80569 A.J. Brown

John Douglas
 Engineer Surveyor to Lloyd's Register of Shipping.

Date.....

Committee's Minute.....

010697-010704-0116