

## STEEL STEAMER or MOTORSHIP

26 JUL 1929  
Received at London OfficeState if Report has been sent on the Freeboard of the Vessel *yes*State if Report is sent on the Machinery of the Vessel *on fittings to shell only*Date of completion of report *25 July 1929*Port of *Leith*No. *17632*Survey held at *Burntisland*Date First Survey *23<sup>rd</sup> January 1929*Last Survey *10<sup>th</sup> July*

1929

On the (State if Machinery fitted Aft and  
if Single, Twin or Triple Screw)*Single screw, "SARASTONE"*State Type (Full Scantling, Complete Superstructure  
with or without Tonnage Openings)*Full scantling, single deck*State Type of Erections *P.B. & F.*TONNAGE under  
Tonnage Deck... *2196.14*CLASS *+100A.1.*State if with freeboard  
as condition of Class *no*Built at *Burntisland*Do. of space or spaces  
between Tonnage Dk.  
and Upper Dk. *-*Length from fore part of stem to after part of stern  
post on summer L.W.L. See Sec. 3 (1a)*297.0*Launched *6<sup>th</sup> July 1919* Yard No. *154*

Total

*2196.14*

Breadth (greatest moulded)

*B 44.67*Builders *The Burntisland S.B. Co. Ltd.*

Gross Tonnage

*2473.04*Depth at middle of length from top of keel to top  
of beam at side of uppermost continuous  
deck. See Sec. 3 (1c)*D 22.58*Owners *Stone & Rolfe Ltd.*

Register Tonnage

*1490.50*

1st Longitudinal Number (L x D).....

*= 6707*Managers *-*

(Where necessary to be entered in Reg. Book.)

2nd Numeral L x (B + D).....

*= 19973*Residence *Burrows Chambers,*REGISTERED DIMENSIONS.  
FEET.

Length

*300.0*Framing Depth "d," at middle of length. See  
Sec. 3 (1d)*19.58*Port of Registry *LLANELLY.*

Breadth

*44.85*Proportions—Depth to Length—Uppermost con-  
tinuous deck to top of keel*13.15*

If surveyed while building, afloat, or in dry dock

Depth

*20.4*Do. (Long Bridge to top  
of keel)*9.90*

Draught Moulded

*19-2 1/4**While building*

## FRAMES, DOUBLE BOTTOM AND BEAMS.

	INCHES IN SHIP.	Any Departure from Approved Plans to be Noted.		INCHES IN SHIP.	Any Departure from Approved Plans to be Noted.
ES, Spacing amidships	<i>9 1/2</i>		Bracket Floors, Frame	<i>✓</i>	
" from 3/4 length to Collision bulkhead	<i>27</i>		" " Reversed Frame	<i>✓</i>	
" in peaks	<i>24</i>		" " Vertical Struts	<i>✓</i>	
FRAMING.			Centre Girder, depth and thickness amidships	<i>36 1/2 46</i>	
Amidships, Angle, E or C	<i>10 3 1/2 40</i>		" " top Angles	<i>3 3 1/2 42</i>	
Extends up to	<i>upper deck</i>		" " bottom Angles	<i>3 1/2 3 1/2 48</i>	
Reversed Frame Amidships, Angle	<i>✓</i>		Side Girders, No. each side and thickness	<i>one (TOP 6 x 3 1/2 40) (BOT 6 1/2 x 3 1/2 40) (VERT 6 1/2 x 3 1/2 40) (E 7 Bands) (F 5 L Ford)</i>	
Extends up to	<i>✓</i>		Margin Plate depth (excl. of flange) and thickness	<i>35 1/2 44 (34 BS)</i>	
Height of Framing Girder	<i>10</i>		" " Vertical Angle to Tank side Bracket abaft 1/2 len. from stem	<i>3 3 1/2 44</i>	
Plating in Uppermost Continuous 'tween Decks, Angle, E or C	<i>✓</i>		" " Vertical Angle to Tank side Bracket forward 1/2 len. from stem	<i>5 5 1/2 41</i>	
" Second 'tween Decks, Angle, E or C	<i>✓</i>		" " Gussets, spacing and scantling abaft 1/2 len. from stem	<i>6 3/4 34</i>	
" Third " " " "	<i>✓</i>		" " Gussets, spacing and scantling forward 1/2 len. from stem	<i>Continuous gusset plate 34</i>	
Plating in Peaks, Angle, E or C	<i>6 1/2 3 30</i>		Tank Side Brackets, height above base line at toe of Frame and thickness	<i>56 1/2 44</i>	
Diameter and Spacing of Rivets through Frame and Shell Plating amid- ships	<i>7/8 5 1/2 40</i>		INNER BOTTOM PLATING.		
If Frame Joggled	<i>yes</i>		Breadth and thickness of Middle Line Strake	<i>84 1/2 42</i>	
PLATING ARRANGEMENTS (Sec. 7), state system and particulars	<i>3 plating girders Plating frames 12 x 3 1/2 x 34 1/2 Continuous gusset plate.</i>		Thickness of remainder in Holds	<i>16 3/8</i>	
STRENGTHENING OF BOTTOM FOR HARD. State Particulars	<i>3 girders, as per profile plan.</i>		Are Rule requirements complied with regarding increases of scantlings in way of double bottom in E. & B. space and framing in Bunkers and Boiler Room?	<i>yes</i>	
DOUBLE BOTTOM.			BEAMS.		
Plating, Depth and thickness at mid-line in Holds	<i>34 every frame</i>		Uppermost Continuous Deck, amidships in Wells, Angle, E or C	<i>9 1/2 3 1/2 39</i>	
Height of Brackets at side above base line at toe of frame	<i>see Midships section.</i>		" " in way of Bridge, Angle, E or C	<i>9 3 1/2 38</i>	
Margin Line Keelson, on Floors, Angles, E or C	<i>✓</i>		Spacing	<i>every frame</i>	
" " Through Plate or Intercostal Plate	<i>✓</i>		Second Deck, amidships, Angle, E or C		
" " Foundation Plate on Floors	<i>✓</i>		Spacing		
" " Flat Plate Keel Angles	<i>✓</i>		Third Deck, amidships, Angle, E or C		
Keelsons, No. each side	<i>✓</i>		Spacing		
" thickness of Intercostal Plate	<i>✓</i>		Fourth Deck, amidships, Angle, E or C		
" Angles	<i>✓</i>		Spacing		
DOUBLE BOTTOM.			Poop Deck, Angle, E or C	<i>from 6 3 1/2 26</i>	
Floors, thickness and spacing	<i>34 every frame</i>		Spacing	<i>every frame</i>	
" Are Frame and Reversed Frame joggled?	<i>yes</i>		Bridge Deck, Angle, E or C	<i>5 1/2 3 1/2 31</i>	
Bracket Floors, breadth and thickness at middle line	<i>✓</i>		Spacing	<i>every frame</i>	
" breadth and thickness at margin plate	<i>✓</i>		Forecastle Deck, Angle, E or C	<i>from 5 3 1/2 28</i>	
			Spacing	<i>every frame</i>	



# PILLARS AND DECKS.

	INCHES IN SHIP.	Any Departure from Approved Plans to be Noted.		INCHES IN SHIP.	Any Departure from Approved Plans to be Noted.
<b>PILLARS, No. of Rows</b> .....	✓		Stringer Plate, breadth and thickness in way of Bridge .....		
" in 'tween Decks, Size and Spacing.....	✓		Thickness of Plating abreast Deck openings in way of Wells .....		
" " " <i>Poop</i> <i>2 1/2" dia</i> <i>alternating beams</i>			Thickness of Plating abreast Deck openings in way of Bridge .....		
" in Hold <i>Bridge</i> <i>2 3/8" dia</i> <i>for profile.</i>			Thickness of Plating within line of openings...		
" " " <i>Foils</i> <i>2 3/8" " " "</i>			If Sheathed, material and thickness .....		
<b>Centre Line Bulkhead.</b>			<b>Third Deck.</b>		
Stiffeners and Spacing.....	✓		Stringer Plate, breadth and thickness.....		
Plating, thickness of .....	✓		If Plated, state thickness.....		
<b>STRINGERS AND DECKS.</b>			<b>Fourth Deck.</b>		
<b>Uppermost Continuous Deck.</b>			Stringer Plate, breadth and thickness.....		
Stringer Plate, breadth and thickness in Wells <i>85" 88" 40"</i>			If Plated, state thickness .....		
" " " <i>in way of Bridge</i> <i>85" 34"</i>			<b>Poop Deck.</b>		
" <i>Bridge ends</i> <i>85" 1.06"</i>			Stringer Plate, breadth and thickness .....		
" Angle in Wells <i>beyond Bridge</i> <i>6" 6" 68"</i>			Plating, Sheathing, material and thickness .....		
Thickness of Plating abreast Deck openings in way of Wells .....	✓		<b>Bridge Deck.</b>		
Thickness of Plating abreast Deck openings in way of Bridge .....	.36 - .32		Stringer Plate, breadth and thickness.....		
Thickness of Plating within line of openings...	.30		Plating, Sheathing, material and thickness ...		
If Sheathed, material and thickness .....	✓		<b>Forecastle Deck.</b>		
<b>Second Deck.</b>			Stringer Plate, breadth and thickness.....		
Stringer Plate, breadth and thickness in Wells...	✓		Plating, Sheathing, material and thickness ...		

## SHELL PLATING.

SCANTLINGS.					RIVETING.						
STRAKES.	AS IN VESSEL.				ANY DEPARTURE FROM APPROVED PLANS TO BE NOTED.	EDGES.		BUTTS.			
	AMIDSHIPS.		FORWARD.	AFT.		State if jogged?		RIVETS.		No. of Rows of Rivets.	
	Breadth.	Thickness.	Thickness.	Thickness.		SINGLE OR DOUBLE.		Diam.	Spacing or to cr.	Diam.	Spacing or to cr.
	Inches.	Inches.	Inches.	Inches.				Inches.	Inches.	Inches.	Inches.
FLAT PLATE KEEL .....	48	.61	.57	.57		Double	7/8	3 1/2	Triple	7/8	3 1/8 Lapped
" DBLG. (if any) .....											
BOTTOM PLATING, No. of Strakes .....	<i>A 76 3/8</i>	.56	.43	.43		Double	7/8	3 1/2	Triple	7/8	3 1/8 Lapped
BILGE PLATING, No. of Strakes .....	<i>B 76 3/8</i>	.56	.43	.43		"	"	"	"	"	"
SIDE PLATING, No. of Strakes .....	<i>C 73 1/4</i>	.56	.43	.43		"	"	"	"	"	"
UPPER DECK, Sheer-strake in Wells.....	<i>D 66</i>	.56	.43	.43		"	"	"	"	"	"
UPPER DECK, Sheer-strake in Bridge ...	<i>E 67 1/2</i>	.56	.43	.43		"	"	"	"	"	"
STRAKE BELOW Sheer-strake in Wells.....	<i>F 70 1/2</i>	.56	.43	.43		"	"	"	"	"	"
STRAKE BELOW Sheer-strake in Bridge ...	<i>G 70 1/2</i>	.56	.43	.43		"	"	"	"	"	"
POOP SIDE PLATING .....			.34			Single			Single	3/4	2 7/8
BRIDGE SIDE PLATING ...	<i>85 3/4</i>	.45				Double			Triple	7/8	3 1/8
FORECASTLE SIDE PLATING			.36			Single			Single	3/4	2 7/8

## WATERTIGHT BULKHEADS.

Total No. of W.T. BULKHEADS in Vessel <i>(in punctured letter 20/12/28)</i>	
Extending to Upper Deck (Sec. 3 c) <i>4</i>	
" Deck next below <i>✓</i>	
As per Rule <i>5</i>	

	Plating Thickness.	STIFFENERS.			
		VERTICAL.		HORIZONTAL.	
		Scantlings.	Spacing.	Scantlings.	Spacing.
MIDSHIP BULKH'D, Uppertween decks	✓				
" " Second " <i>spacing</i>	✓				
" " Third <i>Frame</i> <i>48" 42" 26" 9 1/2" 45" BA 30</i>	✓				
" " Holds " <i>67" 42" 26" " " 30</i>	✓				
COLLISION " (in Hold) " <i>113" 46" 30" 9 1/2" 37" 24</i>	✓				
AFTER PEAK " " " <i>110" 42" 30" 9 1/2" 43" 24</i>	✓				

## FORGINGS and CASTINGS.

	Casting or Forging.	Scantlings.	Maker's Name.	Any departure from approved plans to be noted.
KEEL, Bar .....	✓			
STEM <i>Roller steel</i>		<i>8 x 2 1/4</i>		
STERN FRAME { Propeller Post .....		<i>9 1/2 x 5 7/8</i>	<i>The Californian Forge Co.</i>	
{ Rudder " .....		<i>8 x 5 5/8</i>		
RUDDER—A x D.....		<i>227</i>		
Speed of Vessel.....		<i>10 knots</i>		
RUDDER mainpiece at head ...		<i>8 x 5 1/4</i>	<i>The Californian Forge Co.</i>	
" " heel ...		<i>6 1/2 x 5 1/4</i>		
" how constructed <i>Frame &amp; Arms forged in one piece</i>				
" double or single plate <i>double 34</i>				
" coupling, vertical or horizontal.....				

Manufacturer's Name or Trade Mark of the Steel used in the construction of the Vessel (state process of manufacture) *James Dunlop & Co. Ltd.*  
**STEEL.** *Dorman Long & Co. Ltd. - The Steel Corporation of Scotland & Co. - David Colville & Sons Ltd. - Bease Partners Ltd.*  
 Has the Steel been tested as required by the Rules?



Number of Certificate.	Anchors.	WEIGHT, E.L. STOCK.	WEIGHT OF STOCK.	TEST, PER CERTIFICATE.	WEIGHT REQUIRED BY TABLE 53.	Description of Anchor.	Makers.	Where and when tested and Superintendent.
		Cwts. qrs. lbs.	Cwts. qrs. lbs.	Tons. cwts. qrs. lbs.	Cwts.			
62401	1st Bower ...	42 1 7	Stockless	37 6 10	42	Hall's Patent, Rhykes & Knisk		Tipton 24/6/29 WAD
62403	2nd " ...	42 0 21	"	37 4 14	42	" "	"	" " "
62402	3rd " ...	41 0 14	"	37 11 2	35 1/2	" "	"	" " "
	Collective weight.	126 2 14			119 1/2			
62431	Stream .....	11 0 3	2 3 7	12 17 2 0	11	Ordinary, Rhykes & Knisk		Tipton 26/6/29 WAD

## CHAIN CABLES.

## HAWSERS AND WARPS.

Number of Certificate.	Length and size supplied.		Test per Certificate.		WEIGHT OF CHAIN CABLE.		Length and Size per Table 53.		Description.	Makers of Cables.	Where and when tested, and Superintendent.	Material.	Length and Size supplied.		Breaking Test of Steel Wire.	Length and Size per Table 53.						
	Length.	Diam.	Statu- tory.	Break- ing.	Supplied.	Per Rule.	Length.	Diam.					Length.	Cir.		Tons.	Fathoms.	Ins.	Length.	Cir.	Fathoms.	Ins.
	Fathoms.	Ins.	Tons.	Tons.	Cwts.	qrs.	lbs.	Cwts.	Fathoms.	Ins.			Fathoms.	Ins.	Tons.	Fathoms.	Ins.					
For particulars of Chain Cables, see "General Remarks"																						
												TOWLINE...	100	4	33	100	4					
												HAWSEERS & WARPS	2 @ 90	2 1/2	12 1/2	2 90	2 1/2					
												"	1 @ 90	2 1/4	9 1/2	2 90	2 1/4					
												"	2 @ 90	2 3/4	15 1/2	Owners						
Iron Steam Chain or Steel Wire	75	4 1/2	35						75	4 1/2												

Steering Gear, Steam *Douglas & Co. Ltd*

Steering Gear, Hand *Blocks & Tackle*

Boats *2 life boats & dinghy* Steering Chains, Size and Test *1" dia. 12 Tons* Windlass *Emmerson Walker & Co*

Ceiling in Holds, thickness and material as before only Cargo Batts, thickness, material and spacing none

**Cargo Hatchways.**—(Upper Deck) *Four of plates' angles* Thickness of Hatches *2 1/2 in*

Size of No. 1 Hatchway (Forward)  $38'-7\frac{1}{2}'' \times 28'-0''$  No. 2  $40'-0'' \times 28'-0''$  No. 3  $36'-9'' \times 28'-0''$  No. 4  $34'-\frac{1}{2}'' \times 28'-0''$  No. 5 ✓ No. 6 ✓

Number of **Shifting Beams** and/or **Fore and Afters** **N<sup>o</sup> 1, 6** **N<sup>o</sup> 2, 6** **N<sup>o</sup> 3, 6** **N<sup>o</sup> 4, 5.**

*Builder's Signature*

**GENERAL DECLARATION.** It should be stated (a) whether the vessel is fitted for the carriage and burning of oil used as fuel ..... (b) whether the vessel, not being an oil tanker, is fitted for carrying oil as cargo ..... The positions in which oil is carried as fuel or cargo should be indicated, together with the flash point.

This vessel has been built in accordance with the approved <sup>plans</sup> and in general conformity with the Rules. The materials and the workmanship are good.

The Double Bottom Tanks, Fore & After Peak Tanks, Port & Starboard Deep Tanks, weather decks, bulkheads tunnel and W.T. door have been tested in accordance with the Rule requirements with satisfactory results.

The Freeboard has been cut upon the Vessels sides & Verified.

The Shell plating to Stern Frame is to Rule thickness

The following plans are forwarded: - Midship Section, Profile & Decks. Modification of E.R. Wing Tanks, Stern & Reader Frames, Stream line Plates on Reader Post, Reader Quadrant. Pumping Plan.

The amount of Entry Fee ..... £ 6 : 0 : 0 } Fees applied for,

Special Survey Fee.... £ 198 13 0

Received by me, 7. 8. 29

*Fussard*  
Travelling Expenses, if any £ 6 : 8 : 4  
3 : 9 : 0

Received by me,

78.2

State whether the Vessel has been built under Special Survey *yes*

Null Certificate to be sent to *LH 101* Date of issue *8/8/29*

I am of opinion the Vessel should be Classed +100A1

Cargo Batteries not fitted  
Intermediate bulkhead in forward  
hold dispensed with "4 BH"

Signature *John G. Allen*  
Surveyor to Lloyd's Register of Shipping.

## Committee's Minute

*Character assigned*

WED. 7 AUG 1929

+ 100A

large ballens not fitted

Lloyd's arch.

+ dmb 8.29 Cl

Weg



GENERAL REMARKS—(The Surveyor should state the Number of Report and Name of any Sister Vessel. Plans showing Vessel as built should be forwarded and a List of the Plans should be embodied.)

Two Reports on Forgings and one Report on Castings are forwarded herewith, also a letter from the owner concerning the dispensing of the bulkhead in forward hold -

This Vessel has left for Sunderland at which port the Engines & Boilers are to be installed. To complete the survey it remains to see the hull, & steering gear under steam & examine the casing & Engine Room lighting

#### CHAIN CABLES.

Number of Certificate.	Length and size supplied.		Test per Certificate.		WEIGHT OF CHAIN CABLE.				Length and Size per Table 53.		Description.	Makers of Cables.	Where and when tested, and Superintendent.
	Length.	Diam.	Stagnatory.	Break-ing.	Supplied.	Per Rule.			Length.	Diam.			
	Fathoms.	Ins.	Tons.	Tons.	Cwts. qrs. lbs.	Cwts.			Fathoms.	Ins.			
31937	15	1 7/8	63 1/2	88 1/2	27 2 0	26-2-9			15	1 7/8	SL	Cardiff	5/6/28 AJ
31940	"	"	"	"	26 3 0	"			"	"		"	"
31957	"	"	"	"	27 0 0	"			"	"		"	7/6/29
31958	"	"	"	"	27 0 0	"			"	"		"	14/8/27
31211	"	"	"	"	27 0 0	"			"	"		"	12/8/27
31192	"	"	"	"	26 2 14	"			"	"		"	"
31190	"	"	"	"	26 3 14	"			"	"		"	"
31184	"	"	"	"	27 0 7	"			"	"		"	5/6/28
31936	"	"	"	"	27 1 21	"			"	"		"	19/7/27
31234	"	"	"	"	26 2 21	"			"	"		"	14/9/27
31215	"	"	"	"	27 0 0	"			"	"		"	"
31212	"	"	"	"	27 1 0	"			"	"		"	15/5/29
33184,60	"	"	"	"	112 1 0	"			"	"		"	"
240					436-1-21	425 1/4	240						

Particulars of Drop Test of Cast Steel Anchors, viz. :—  
Weight, Surveyor's Initials, Number of Certificate, Date of Test.

1st Bower 25-3-0 AL 4351 27-5-29  
2nd " 25-3-11 " 4349 "  
3rd " 25-3-11 " 4350 "

PARTICULARS FOR RECORD in the REGISTER BOOK.—Length of Poop 18 6/7 ft., R.Q.D. ✓ ft., Bridge 57 7/5 ft., Forecastle 23 7/1 ft.  
(in feet and tenths). When the Poop is joined to the B.D., this should be distinctly stated ✓

No. and Material of Decks (this information is to be given as it should appear in the Register Book) 1 D<sup>th</sup> Stl.

Official No. 145576 ; Signal Letters  
Is bottom of Vessel coated with cement yis if not give particulars of composition Cement under boilers, Cement fillets & oar riveting elsewhere.

#### PARTICULARS OF WATER BALLAST.—

Where Fitted.	Length.	Water Capacity.	Where Fitted.	Length.	Water Capacity.
	Feet.	Tons.		Feet.	Tons.
Double bottom, aft, N <sup>o</sup> 4 Tank	99.125	248	Fore peak tank,	15.94	105
Double bottom, under Engines and Boilers, N <sup>o</sup> 3 "	34.125	120	After peak tank,	20.0	94
Double bottom, if under Engines only, —	—	—	Deep tank, aft,	—	—
Double bottom, if under Boilers only, —	—	—	Deep tank, forward,	—	—
Double bottom, forward, N <sup>o</sup> 2+1	126.125	381	Other tanks, if fitted, P+S Engine Room Wings	13.125	107
Total capacity of double bottom		749	(If necessary, furnish further information by sketch.)		
* The wells are not to be included in the lengths of the tanks.					

Order for Special Survey No. 117

Date 19/12/28

Dates of Surveys held while building

1929  
Jan 23, 30 - Feb 5, 12, 19, 26, - Mar 1, 8, 15, 20, 27, 26, 29.  
Apr 2, 5, 15, 19, 23, 26, 30 - May 7, 10, 15, 17, 22, 24, 29.  
June 4, 7, 11, 14, 19, 25, 28. - July 2, 5, 6, 10

Total No. of Visits 38