

With or Without  
Disconnected Erections.

STEEL STEAMER.

Received at London Office WED. 24 OCT. 1923

Date of completion of report

Survey held at

State if Report is also sent on the Machinery of the Vessel

Port of

No.

Date, First Survey

Last Survey

1923

On the

S.S. "SARNIA"

Rig Schooner

TONNAGE under

489.69

CLASS #100A1

FEET.

Master

Year of appointment

(1) As Master in service of owner of present vessel: 19  
(2) As Master of this vessel: 19

Built at

When built 1923 Launched Aug. 14<sup>th</sup> 1923

By whom built C. Rennoldson & Co.

Owners O. Doray & Sons.

Managers

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

Residence North Quay, Guernsey.

Port belonging to Guernsey.

Do. between Tonnage Dk. and 3rd and 4th Dk.

Total under Upper Dk. 489.69

Do. of Poop

Do. of R.Q.Dk.

Do. of Bridge House

Do. of Forecastle

Do. of Houses on Dk.

Do. of excess of Hatchways

Do. above Crown of

Engine Room

Gross Tonnage

Less Crew Space

Less above Crown of

Engine Room

TONNAGE FOR FEES

Less Engine Room

Less Navigation Spaces

W. Bal.

Register Tonnage

as cut on Beam

Breadth (greatest moulded)

Depth, at middle of length from top of keel to top of upper deck beams at side

Transverse Number

Length on deck from fore part of stem to after part of stern post

Longitudinal Number

Depth "d," at middle of length (See Secs. 2 & 13)

Proportions—Depths to Length—Upper Deck Beam at side to top of keel

" " Long Bridge Deck Beam at side to top of keel

Destined Voyage

If Surveyed while Building, Afloat, or in Dry Dock

LENGTH on Deck as per Rule	Feet.	Inches.	BREADTH—Moulded	Feet.	Inches.	DEPTH, ACTUAL—Top of Floors to top of Upper Dk. Beams	Feet.	Inches.	No. of Decks with flat laid
180	0		28	0		Do. do. do. do. R.Q. Second Dk. Beams	12	6	One
							16	6	No. of Tiers of Beams One

FRAMING.				PILLARS.			
Inches in Ship	Inches in Ship	Inches in Ship	Inches in Ship	Inches in Ship	Inches in Ship	Inches in Ship	Inches in Ship
FRAME, Angle, or Bars amidships	5 1/2	3	32	5 1/2	3	32	5 1/2
Do. in peaks	6 1/2	3	38	6 1/2	3	38	6 1/2
Do. in way of Double Bottoms at Solid Floors	4 1/2	3	40	4 1/2	3	40	4 1/2
" " at intermdt. Bkts.	3 1/2	3	30	3 1/2	3	30	3 1/2
Spacing of Frames from centre to centre amidships	22			22			22
" " length to Collision bulkhead	22			22			22
" " in peaks	22			22			22
EVERSED FRAME, Angles	Bulb Angle	Framing					
Do. in way of Double Bottoms at Solid Floors	3	3	30	3	3	30	3
" " at intermdt. Bkts.	3	3	30	3	2 1/2	28	3
RAMING, depth of girder	5 1/2	6	6 1/2	5 1/2	6	6 1/2	5 1/2
FLOORS, depth and thickness of Floor Plate at mid-line for 1/2 length amidships	20 1/2 x 32 ES	42 BS	20 1/2 x 32 ES	42 BS			
" in way of Engine and Boiler Spaces	28		28				
" thickness at the ends of vessel	Floor Top	Lowd.					
" depth at 1/2 the half breadth, as per Rule							
" height extended at the Bilges							
FLOORS in Cell. Double Bottoms	30		30				
" state if flanged (top & bottom)	No		No				
" Spacing of Solid floors	alt. Frames where allowed	as appd.					
ENTRE GIRDER, in Dbl. bottom, dpth. & thknss.	31 x 38		31 x 38				
" " Angles, Top	Single 3 1/2	3 1/2	40	3 1/2	3 1/2	40	3 1/2
" " Bottom	Double 3 1/2	3 1/2	40	3 1/2	3 1/2	40	3 1/2
" " to Floors	Single 3	3	30	3	3	30	3
" Brackets at intermdt. frmg., wdth & thknss	15 x 30		As appd.				
DE GIRDERS, number on each side & thickness	One 28		One 28				
" " state if flanged (top and bottom)	No		No				
" " Angles (top and bottom)	3	3	30	3	3	30	3
" " to Floors	3	3	26	3	3	26	3
MARGIN PLATE, depth (exclusive of flange) and thickness	5 x 3 x 30 at Int. Frames	as appd.	21 x 32				
" " Angle to Outside Plating	3	3	32	3	3	32	3
" " Floors	3	3	30	3	3	30	3
" Brackets at intermdt. frmg., wdth & thknss	15 x 30		As appd.				
" Height of Outside Brackets above at bilge	5		5				
NER BOTTOM PLATING, breadth and thickness of Middle Line Strake	31 x 36		31 x 36				
" " in Engine and Boiler space							
" " Remainder in Holds	30		30				
BAMS, Upper Deck, Single Angle, Bulb	5	3	34	5	3	34	5
" " Angle, Plate, Tee Bulb, or Channel	4 1/2	3	30	4 1/2	3	30	4 1/2
" " In way of Long Bridge							
" " Spacing	Every		Frame				
BAMS, Second Deck, Single Angle, Bulb	5	3	34	5	3	34	5
" " Angle, Plate, Tee Bulb, or Channel	4 1/2	3	30	4 1/2	3	30	4 1/2
" " Spacing	Every		Frame				
BAMS, Third and Fourth Deck, Single Angle	Match Ends Beams to Main						
" " Bulb Angle, Plate, Tee Bulb, or Channel	R.Q. Decks as appd.						
" " Angles on upper edge							
" " Spacing							
BAMS, Poop Deck, Angle, Bulb Angle, Plate, Tee Bulb, or Channel							
" " Angles on upper edge							
" " Spacing							
BAMS, Bridge Deck, Angle, Bulb Angle, Plate, Tee Bulb, or Channel							
" " Angles on upper edge							
" " Spacing							
BAMS, Forecastle Deck, Angle, Bulb Angle, Plate, Tee Bulb, or Channel							
" " Angles on upper edge							
" " Spacing							

\* If Iron or Steel Deck, state if whole or part, and if Wood Deck is laid thereon.

004556-004563-023612



WEB FRAMES.		Inches in Ship.	Inches in Ship.	Inches per Rule, Or as Approved.	Inches per Rule, Or as Approved.	
WEB-FRAMES, In Fore Body, No. and spacing		None.				
" " " brdth. & thickness		Painting anti. as appd.				
" " " No. of Side Stringers " "		Deep Beam Knee as appd.				
WEB-FRAMES, In E. & B. Space, No. & spacing		None.				
" " " brdth. & thickness		None.				
WEB-FRAMES, In After Body, No. and spacing		None.				
" " " brdth. & thickness		Stringer in A. Peaks as appd.				
" " " No. of Side Stringers " "		None.				
" " " Size of Face Angles to Web-Frames.....		None.				
BRACKET PLATES to Stringers between Web Frames, depth and thickness.....		None.				
BULKHEADS.		Number.	Thickness.	STIFFENERS.	Single or Double Frames.	Height up, state deck.
Vessel.		Per Rule.	Inches.	Horizontal. Size. (Spacing) Inches.	Vertical. Size. (Spacing) Inches.	
W.T.BULKHEADS		3	3	W.T. Stép	7 1/2 x 25 x 46	24 Single R.Q.D.
No 6-7			50 x 22 x 28	None	6 x 32 x 36	30 0° 0°
No 32			30 x 26	None	17 x 32 x 38	30 0° 0°
" COLLISION "		No 88	30	W.T. Flat	26 x 32 x 36	24 0° U.D.
PARTITION "				above flat 4 x 32 x 30	24	
LONGITUDINAL.						
Are the outside Plates doubled two spaces of Frames in length? Brackets fitted						
Are the Slnice Valves and Watertight Doors in efficient working order? None						
FORGINGS or CASTINGS.					Inches in Ship.	Inches per Rule, Or as Approved.
KEEL, Bar, depth and thickness					Flat plate Keel.	
STEM, moulding and thickness					7 x 1 3/4	6 1/4 x 1 3/4
STERN-POST for Rudder do. do.					5 3/4 x 4 1/4	5 3/4 x 4 1/4
" for Propeller					6 1/4 x 4 1/4	6 1/4 x 4 1/4
RUDDER-A x D* Table 22. Speed 92 Kts					90.34	90.34
" Main-Piece, diameter at head					4 3/4	4 3/4
" " " at heel					3 1/2	3 1/2
RUDDER, how constructed Forged + Built						
" Thickness of Plates or Single Plate 84						
Can the Rudder be unshipped afloat? Yes						
Manufacturer's name or trade mark of the Iron or Steel (state process of manufacture of Steel) used for Frames, Floors, Beams, Keelsons, Tie and Stringer Plates, Plating, &c.? Open Hearth						
Plates Smith Durham						
Angles. Caps Fleet						
Has the Steel been tested as required by the Rules? Yes						

PLATING.										RIVETING.									
STRAKES.		AS IN SHIP.				PER RULE OR AS APPROVED.		EDGES, Ordinary or joggled? ordinary				BUTTS.							
		AMIDSHIP.		FORWARD.	AFT.	AMIDSHIP.		Single or Double.	Breadth of Lap.	RIVETS.		Double or Treble and for what Length.	RIVETS.		STRAPS.		IF LAPPED.		
		Breadth.	Thickness.	Thickness.	Thickness.	Breadth.	Thickness.			Diam.	Spacing cr. to cr.		Diam.	Spacing cr. to cr.	Breadth.	Thickness.	Breadth.	For what Length.	
FLAT PLATE KEEL.....		42	58	46	46	42	58	Double	5 1/4	7/8	3 3/4	3R	7/8	3 1/2			9	Full	
(If Bar Keel, state Riveting.)								"	4 1/2	3/4	3 1/2	3R-2R	3/4	2 7/8			7 1/2	"	
GARBOARD or A Strake			38	38	34		38	"	"	"	"	0°	"	"			"	"	
State actual thickness in way of Double Bottom.			38	38	34		38	"	"	"	"	0°	"	"			"	"	
B "			38	38	34		38	"	"	"	"	0°	"	"			"	"	
C "			38	38	34		38	"	"	"	"	0°	"	"			"	"	
D "			42	34	38		42	Single	2 1/2	"	"	0°	"	"			"	"	
E "			44	36	34		44	Double	5 1/4	7/8	3 3/4	0°	"	"			"	"	
Sheer F "		42	54	36	34	42	54	"	4 1/2	3/4	3 1/2	0°	7/8	3 1/2			9	"	
R.Q.D. G "		53	42	-	34	53	42	"				0°	3/4	2 7/8			7 1/2	"	
H "																			
J "																			
K "																			
L "																			
M "																			
N "																			
O "																			
P "																			
Q "																			
R "																			
S "																			
T "																			
U "																			
V "																			
W "																			
THICKNESS OF SHEER STRAKE IN WAY OF R.Q. DECK			44				44	Double	4 1/2	3/4	3 1/2	3R-2R	3/4	2 7/8			7 1/2	Full.	
DO. OF STRAKE BELOW DBLG. OF Flat Plate Keel			42				42												
THK. OF Sheerstrakes AT BREAK Length and thickness.			80				80					4R	1"	4			14	0°	
ROAD SIDES R.Q.D. at BREAK.			52				52					3R	7/8	3 1/2			9	5°	
SHORT BRIDGE SIDES			26				26	Single	2 1/2	3/4	3 1/2	2R	3/4	2 7/8			5	"	
FORECASTLE SIDES				26			26	0°	"	"	"	2R	"	"			5	"	

Where a long bridge is fitted the thickness of Upper Deck Sheerstrake and Strake below should also be stated clear of same.

Upper Deck	Butts, 3R riveted for Half length amidship.	Butts of Side Stringers riveted.
Stringer Plate	Straps, single, double or overlapped for Full length amidship.	" Tie Plates riveted.
RQ	Butts, 2R riveted for Full length amidship.	Inner Bottom Plating, riveting of Edges 1R Butts 2R, 1R,
Second Deck	Straps, single or overlapped for Full length amidship.	Centre Girder Butts, 2R riveted. Keelson Butts, riveted.
Stringer Plate		Frames, riveted through Plates with 3/4 in. Rivets, about 5 1/4 apart.
		Rivets, state whether Iron or Steel Iron.

FRAMES extend in one length from Keel to Margins & thence to Main & R.Q. Decks. State if ordinary or joggled Joggled.

REVERSED FRAMES on floors and frames extend from Keel to Margin. State if ordinary or joggled Joggled.

MASTS, SPARS, &c.												
LOWER MASTS.....	Fore	Material.	Total Length.	DIAMETER AND THICKNESS.				No. of Plates in round.	ANGLES.		RIVETING.	
				At Partners.	Heel.	Hounds.	Head.		Number.	Size.	Seams.	Butts.
	Wood.	44-0	13" dia	13	10 1/2	4						
	Main	0°	43-0	0°	0°	0°						
	Mizen											
Bowsprit												
Topmasts, Yards and Remainder of Spars												
Rigging, Material and Size, Shrouds 2 1/2" qwr.												
Stays 3" qwr.												
Sails. Suit of												
Sails, and the following spare sails												



EQUIPMENT No. 8434				LETTER J				ANCHORS.				TONNAGE U. DK. OR PLATING No. FOR TRAWLERS					
Number of Certificate.	Anchors.	WEIGHT, EX. STOCK			WEIGHT OF STOCK			TEST, PER CERTIFICATE.				WEIGHT REQUIRED BY TABLE 31.			Description of Anchor.	Makers.	Where and when tested and Superintendent.
		Cwts.	qrs.	lbs.	Cwts.	qrs.	lbs.	Tons.	cwts.	qrs.	lbs.	Cwts.	qrs.	lbs.			
15052	1st Bower ...	17	1	0	Stockless			18	8	0	0	16	3	0	Lenox Wedge.	Brown Lenox & Co.	Caff. 17.7.23. A. Jones ✓
13976	2nd „ ...	16	3	0	0			18	0	0	0	16	3	0	0	0	0 24.8.20 A. Jones ✓
15150	3rd „ ...	14	1	7	0			15	17	2	0	14	2	0	0	0	0 27.9.23 A. Jones ✓
	4th „ ...																
	Collective weight.	48	1	7								48	0	0			
76375	Stream .....	4	3	24	1	1	4	7	7	2	0	4	3	0	Ordinary 7.6.1.	N. Hingley & Son	Neitherton 5.9.16. W. A. Drysdale
76376	Kedge.....	2	1	10	-	2	9	4	17	2	0	2	1	0	0	0	0 6.9.16. 0 ✓

If Patent state Name of Patentee

TS/Stockings state Mechanical Tests.

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

1st Bower wt. incl pin 11-1-10 A.J. No 4681 2-7-23  
2nd " 13-0-0 G.W.P. " 4065 12-3-20  
3rd " 10-0-6 A.J. " 4733 19-9-23.  
4th "

CHAIN CABLES.										HAWSERS AND WARPS.									
Number of Certificate.	Length and size supplied.		Test per Certificate.		WEIGHT OF CHAIN CABLE		Length and Size per Table 31.	Description.	Makers of Cables.	Where and when tested, and Superintendent.	Material	Length and Size supplied.		Breaking Test of Steel Wire Towline.	Length and Size per Table 31.				
	Length.	Diam.	Status.	Break- ing.	Supplied.	Per Rule.						Length.	Diam.		Length.	Cir.	Length.	Cir.	
62910	Fathoms.	Ins.	Tons.	Tons.	Cwts. qrs. lbs.	Cwts. qrs. lbs.	Fathoms.	Ins.	Stud. Lk.	N. Hingley & Son	Neitherton. 24.5.16. H. Green	TOWLINE	Fathoms.	Ins.	Tons.	Fathoms.	Ins.		
	105	1 1/4	28 1/2	42 1/2	84.0.7								75	2 1/4	15 1/2	75	2 1/4		
62911	15	0	0	0	12.0.21	168.0.0	210	1 1/4	0	0	0	HAWSERS & WARPS	90	6		90	6		
26496	90	0	0	0	25.2.0				0	Brown Lamoa	Cd 58 20.6.23 A. Jones		90	4		90	4		
From Stream Chain on Steel Wire		Cir.			171.3.0			Cir.					2-90	2 5/8					
	60	3	18				60	3	G.S.W.R. Ellis & Co.										

Boats 2 Lifeboats 18'0" Steering Gear, Steam Doukin & Co. Steering Gear, Hand Spare Tiller & Relg. Tackle  
Pumps, Number one to 7. P. Top. Diameter of Barrel 4" State whether they are in efficient working order Yes  
Windlass is Emerson Walker & Thompson Capstan Emerson Walker & Thompson  
Engine Room Skylights.—How constructed? Steel plates & angles What arrangements for deadlights in bad weather? Hinged Flaps & Bulls Eyes  
Coal Bunker Openings.—How constructed? Steel plates & angles How are lids secured? Cleats, Bolts & Taps. Height above deck? On casing Top.  
Number of Scuppers, and numbers and dimensions of Freeing Ports, &c. 2ea. Side Fore Well, 4ea. Side aft. 3ea. Side Fore Well 2-6 x 1-5 1/2, 4ea. Side aft. 2-3 x 1-3  
Ceiling in Holds, thickness and material 2 1/2" W.W. on 1" grounds. Cargo Battens, thickness and material None.  
Cargo Hatchways.—How formed? Steel plates & angles Hatches, If strong and efficient? Yes  
State size No. 1 Hatch (Forward) 31-2 x 15-6 No. 2 Hatch 38-6 x 15-6 No. 3 Hatch No. 4 Hatch  
Number of Web Plates, Shifting Beams and Fore and Afters to each Hatch 6 to No. 1. 7 to No. 2.  
No. of Breasthooks 2 + Decks. No. of Crutches Deep Hoods.  
Bulwarks, height above deck and description 3'9 Steel. 25 Main Rail, material and size 5 1/2 x 3 x 32 B.A.  
The foregoing is a correct description. Surveyor's Signature M. Gray.  
Builder's Signature (here only) Carl Donaldson & Co. Surveyor to Lloyd's Register of Shipping.

Correspondence.—State dates and initials of letters respecting this case (Reference should be made in any correspondence connected with the case)

M. 4-11-19, 12-1-20, 14-7-20, 18-4-23, E. 16-5-23, P.M.C. 1-8-23.

Workmanship. Are the butts of plating planed or otherwise fitted? overlapped.

Is the riveted work properly closed? Yes

Are the liners between the frames and plates solid single pieces? Joggled frames

Do the holes for riveting plate to frames, butt straps, or plate

to plate, &c., conform well to each other? Yes

Are the rivet holes well and sufficiently countersunk in the plate and punched

from the faying surfaces? Yes Do any rivets break into or through the seams or butts of the plating? Very few

Are the butts of Plating, Stringers, &c., properly shifted and trapped? Yes

Have all the upper and weather decks been tested as required by the Rules (Sec. 26, par. 20)? Yes

State results of tests Satisfactory

Have all the gutterways been tested as required by the Rules (Sec. 26, par. 20)? Yes

State results of tests Satisfactory

General Remarks (State quality of workmanship, &c.) This vessel has been built in accordance with the approved plans & the Rules. The materials & workmanship are good.

The approved plans & forging reports are forwarded herewith.

The vessel is similar (except alterations to hatchways) to the same Builder's S/S "Channel Queen".

Nwc. Rpt. No 74885

and dry docked on completion. Bottom & Rudder cleaned & examined & riveted.

Kel plate amidships slightly indented whilst docking found in place.

The Surveyor should state the Number of Report and Name of any Sister Vessel.  
Plans to be forwarded with F.E. Report showing vessel as built.

Freeboard Fee £4.  
Amount of Entry Fee £4 : 0 : 0  
Special Survey Fee £71 : 2 : 0  
Travelling Expenses, if any £ : :  
Fees applied for, 23/10/23.  
Received by me, 3/11/23.

Hull

Certificate to be sent to

Newcastle

Date of issue 14/11/23.

whether the Vessel has been built under Special Survey Yes

of opinion this Vessel should be Classed +100A1 Cargo Battens not fitted

or without Freeboard, as condition of Class Without

Surveyor to Lloyd's Register of Shipping.

Committee's Minute

Character assigned

FRI. 26 OCT. 1923

100A1  
Cargo battens not fitted

+ Lmb 10.23  
C.L.

Lloyds ass. O



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Lloyd's Register of Shipping

004556-004563-0236



GENERAL REMARKS—(continued).

PARTICULARS FOR RECORD in the REGISTER BOOK.—Length of Poop ☒ ft., R.Q.D. 104.5 ft., Bridge 11.0 ft., Forecastle 23.66 ft. (in feet and tenths). When the Poop is joined to the B.D., this should be distinctly stated ☒

No. and Material of Decks (if Iron or Steel) and whether wholly or partially covered with wood, and No. of tiers of Beams (this information is to be given as it should appear in the Register Book) One Deck Steel. Well Decks

Official No. \_\_\_\_\_; Signal Letters \_\_\_\_\_ State if Machinery is fitted aft Yes  
How are the surfaces preserved from oxidation? Inside Cement in O.B. Paint Outside Paint

PARTICULARS OF WATER BALLAST.—State whether the Double bottom is constructed on the cellular system or with girders on floors cellular O.B.

Where Fitted.	*Length. Feet.	Water Capacity. Tons.	Where Fitted.	*Length. Feet.	Water Capacity. Tons.
Double bottom, aft,	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	Fore peak tank,	-	<u>63</u>
Double bottom, under Engines and Boilers,	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	After peak tank,	-	<u>37</u>
Double bottom, if under Engines only,	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	Deep tank, aft,		
Double bottom, if under Boilers only,	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	Deep tank, forward,		
Double bottom, forward,	<u>102.66</u>	<u>155</u>	Other tanks, if fitted,		
	Total capacity of double bottom	<u>155</u>	(If necessary, furnish further information by sketch.)		

\* The wells are not to be included in the lengths of the tanks.

State whether the above have been tested as required by the Rules. Yes

Order for Special Survey No. 5000

Date 19/12/22

No. 198 in builder's yard.

DATES of Surveys held while building

1920 1923  
Dec. 14. 30. Apr. 24. May 1. 4. 7. 9. 10. 15. 17. 18. 23. 24. 25. 29. June 1. 5. 15. 18. 20. 25. July 2. 3. 4. 10. 16. 18. 19. 24. 27. Aug. 2. 8. 14. 24. 29. 30. 31. Sep. 4. 10. 11. 14. 25. 26. 27. Oct. 2. 4. 8. 9. 11. 15.

Surveyor's Signature

M. L. Gray

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Total No. of Visits 50

Lloyd's Register Foundation