

22 SEP 1941

During construction & in dry rock

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.
PILLARS, No. of Rows.....			Stringer Plate, breadth and thickness in way of Bridge <i>forward</i>	<i>.36</i> ✓	
" in 'tween Decks, Size and Spacing.....	<i>400</i>		Thickness of Plating abreast Deck openings in way of Wells <i>ast</i>	<i>.36</i> ✓	
" " " " " "	<i>long at</i>		Thickness of Plating abreast Deck openings in way of Bridge <i>forward</i>	<i>.34</i> ✓	
" in Holds " "	<i>Bulkheads</i> ✓		Thickness of Plating within line of openings...	✓	
" " " " " "			If Sheathed, material and thickness	✓	
<i>Long? Centre Line Bulkhead. 11' P15</i>			Third Deck. deep tank top		
Stiffeners and Spacing.....	<i>Ba 10 3 1/2 7/16</i>	✓	Stringer Plate, breadth and thickness.....	<i>.42</i> ✓	
<i>2 hor. girders 30x42, 26x40</i>	<i>0 3 1/2</i>	✓	If Plated, state thickness.....	<i>.38</i> ✓	
Plating, thickness of	<i>42 Vertical</i>	✓	Fourth Deck.		
STRINGERS AND DECKS.			Stringer Plate, breadth and thickness.....	✓	
Uppermost Continuous Deck.			If Plated, state thickness		
Stringer Plate, breadth and thickness in Wells	<i>97x87, 80</i>	✓	Poop Deck.		
" " " " in way of Bridge	<i>97x87</i>	✓	Stringer Plate, breadth and thickness	<i>.34</i> ✓	
" Angle in Wells	<i>6 6 5/8</i>	✓	Plating, Sheathing, material and thickness ...	<i>.26 deep tank 1</i>	
<i>ce continuous strakes</i>			Bridge Deck.		
Thickness of Plating abreast Deck openings in way of Wells	<i>.76</i>	✓	Stringer Plate, breadth and thickness.....	<i>.43</i> ✓	
Thickness of Plating abreast Deck openings in way of Bridge		✓	Plating, Sheathing, material and thickness ...	<i>.34</i> ✓	
<i>a many f.o.t. hatches</i>			Forecastle Deck.		
Thickness of Plating within line of openings...	<i>.58</i>	✓	Stringer Plate, breadth and thickness.....	<i>.37</i> ✓	
If Sheathed, material and thickness	<i>No</i>	✓	Plating, Sheathing, material and thickness ...	<i>.36</i> ✓	
Second Deck.	<i>ast</i>				
Stringer Plate, breadth and thickness in Wells...	<i>.40</i>	✓			

SHELL PLATING.

SCANTLINGS.					RIVETING.						
STRAKES.	AS IN VESSEL.				ANY DEPARTURE FROM APPROVED PLANS TO BE NOTED.	EDGES.		BUTTS.			
	AMIDSHIPS.		FORWARD.	AFT.		State if jogged? <i>not jogged</i>		RIVETS.		No. of Rows of Rivets.	STRAPPED OR LAPPED.
	Breadth.	Thickness.	Thickness.	Thickness.		SINGLE OR DOUBLE.		Diam.	Spacing cr. to cr.		
	Inches.	Inches.	Inches.	Inches.				Inches.	Inches.		
FLAT PLATE KEEL	<i>57</i>	<i>.96</i>	<i>.78</i>	<i>.78</i>		<i>double</i>	✓	<i>1"</i>	<i>4</i>	<i>Five</i>	<i>1/8 4 1/2 lapped</i>
" DBLG. (if any)					<i>.53 ce plan</i>						
BOTTOM PLATING, No. of Strakes <i>4</i>	<i>.67</i>	<i>.64</i>	<i>.74</i>	<i>.50</i>	<i>.50</i>	<i>double</i>	✓	<i>7/8</i>	<i>3 1/2</i>	<i>four</i>	<i>7/8 3 1/2 lapped</i>
BILGE PLATING, No. of Strakes <i>1</i>	<i>.64</i>	<i>.50</i>	<i>.50</i>			<i>double</i>	✓	<i>7/8</i>	<i>3 1/2</i>	<i>four</i>	<i>7/8 3 1/2 lapped</i>
SIDE PLATING, No. of Strakes <i>3</i>	<i>.64</i>	<i>.50</i>	<i>.50</i>			<i>double</i>	✓	<i>7/8</i>	<i>3 1/2</i>	<i>four</i>	<i>7/8 3 1/2 lapped</i>
UPPER DECK, Sheer-strake in Wells.....	<i>55</i>	<i>.99</i>	<i>.50</i>	<i>.50</i>		-		-	-	<i>five</i>	<i>1/8 5 lapped</i>
<i>(1.19 at Br ends)</i>											
UPPER DECK, Sheer-strake in Bridge ...	<i>55</i>	<i>.99</i>	<i>.50</i>	<i>.50</i>		-		-	-	<i>five</i>	<i>1/8 5 lapped</i>
STRAKE BELOW Sheer-strake in Wells.....	<i>83</i>	<i>.76</i>	<i>.50</i>	<i>.50</i>		<i>double</i>	✓	<i>1</i>	<i>4</i>	<i>four</i>	<i>1 4 lapped</i>
STRAKE BELOW Sheer-strake in Bridge ...	<i>83</i>	<i>.76</i>	<i>.50</i>	<i>.50</i>		<i>double</i>	✓	<i>1</i>	<i>4</i>	<i>four</i>	<i>1 4 lapped</i>
POOP SIDE PLATING				<i>.40</i>		<i>one strake</i>	✓			<i>two</i>	<i>3/4 2 7/8 lapped</i>
BRIDGE SIDE PLATING ...	<i>.43</i>					<i>one strake</i>	✓			<i>two</i>	<i>3/4 2 5/8 lapped</i>
FORECASTLE SIDE PLATING			<i>.43</i>			<i>single</i>	✓	<i>3/4</i>	<i>3</i>	<i>one</i>	<i>3/4 2 1/8 lapped</i>

WATERTIGHT BULKHEADS.

Total No. of W.T. BULKHEADS in Vessel—	
Extending to Upper Deck (Sec. 3 c)	<i>17</i>
" Deck next below	✓
As per Rule <i>ordinary cargo</i>	<i>7</i>

STIFFENERS.

	Plating Thickness.	VERTICAL.		HORIZONTAL.	
		Scantlings.	Spacing.	Scantlings.	Spacing.
MIDSHIP BULKHEAD, Upper 'tween decks	<i>.51</i>	<i>10x3 1/2 7/16 Ba</i>	<i>33</i>	<i>7x3 1/2 1/2 7/16</i>	<i>40</i>
<i>coaming</i>	<i>.41</i>			<i>lower 33x40</i>	
" Second " "	<i>.41</i>			<i>12x3 1/2 1/2 7/16</i>	<i>40</i>
" Third " "	<i>.50</i>			<i>upper 32x40</i>	<i>9 1/2</i>
" <i>coaming</i>	<i>.40</i>			<i>3 1/2 x 3 1/2 1/2 7/16</i>	<i>43</i>
" Holds	<i>.40</i>	<i>10x3 1/2 7/16 Ba</i>	<i>30</i>	<i>lower 32x40</i>	
" <i>Vertical</i>				<i>3 1/2 x 3 1/2 1/2 7/16</i>	<i>43</i>
COLLISION (in Hold)	<i>.53</i>	<i>9x3 1/2 7/16 Ba</i>	<i>24</i>	<i>4 1/2 x 2 semi br beams</i>	
AFTER PEAK	<i>.50</i>	<i>9x3 1/2 7/16 Ba</i>	<i>24</i>	<i>Brus Keel</i>	

FORGINGS and CASTINGS.

	Casting or Forging.	Scantlings.	Maker's Name.	Any Departure from Approved Plans to be Noted.
KEEL, Bar <i>Flat Plate</i>				
STEM <i>Rollad</i>		<i>10 1/2 x 2 3/4</i>	✓	
STERN FRAME	Propeller Post	<i>cast</i>	<i>as app</i>	<i>steel of Scotland</i>
	Rudder	<i>Steel</i>		
Speed of Vessel				
RUDDER—Type	<i>Simplex type</i>	<i>steel</i>	<i>cast</i>	
" A x D	<i>rudder, double</i>	<i>9</i>	<i>Scotland</i>	
" Diam. of head	<i>plate built</i>			
" Mainpiece at top pintle	<i>cast steel frame</i>	<i>Darlington</i>		
" " heel ...	<i>forger steel</i>	<i>Forge</i>		
" how constructed	<i>semi balanced</i>			
" double or single plate	<i>as app. dia</i>			
" coupling, vertical or horizontal	<i>10 inch 11"</i>	✓		

Manufacturer's Name or Trade Mark of the Steel used in the construction of the Vessel (state process of manufacture)

STEEL.

Colvilles Ltd. Lanarkshire Steel Co. Ltd.

Has the Steel been tested as required by the Rules?

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Lloyd's Register Foundation

Dunsmuir date H+V 10/52.

PARTICULARS OF LONGITUDINAL FRAMING.

FRAMING.		AMIDSHIPS.			ENDS <i>within cargo tanks</i>			Any Departure from Approved Plans to be Noted.	RIVETING.			
		In Ship.			In Ship.				Rivets in Longitudinal Frames.		Spacing of Rivets on each side of Transverses and Bulkheads.	Rivets in Brackets to Bulkheads.
		Ins.	Ins.	Ins.	Ins.	Ins.	Ins.	Diam.	Speng.	Inches.	Number.	Diameter.
		Ins.	Ins.	Ins.	Ins.	Ins.	Ins.	Ins.	Ins.			Inches.
Framing of L, L or C												
Frames in Bridge 'tween Decks ...												
Frames from Uppermost Continuous Deck to Centre Girders No. 1												
" 2												
" 3												
" 4												
" 5												
" 6												
" 7												
" 8												
" 9												
" 10												
" 11												
" 12												
" 13												
" 14												
" 15												
" 16												
Spacing of Longitudinal Frames												
Amidships 1-4												
At Ends 6-9												
Double Bottoms L, L or C												
Tank Top Longitudinals												
Bottom												
Spacing of Longitudinals												
Amidships												
At Ends...												
Transverses.												
Side (in 'tween Decks)												
Depth and Thickness												
Face Angles												
Lugs to Shell*												
Side (in Hold)												
Depth and Thickness												
Face Angles												
Lugs to Shell*												
Bottom												
Lugs to Shell*												
" " Back Bars												
Brackets												
Spacing of Transverse Frames												
* State if joggled or liners.												
Longitudinal Beams of L, L or C												
Bridge Deck												
Upper												
Second												
Third												

The particulars of framing in peaks (if ordinary), Floors, Centre Girders, Side Girders and Margin Plate and their angle attachments, etc., to be entered in their respective places provided for on the Report Forms.

NOTE:—This slip to be pasted on the fourth page of the Report, and reference to same to be made under framing, etc., on the first page.

EQUIPMENT No 44392.										LETTER CT.		ANCHORS.			
Number of Certificate.	Anchors.	WEIGHT, EX. 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.			
25169	1st Bower ...	73	2	14	✓			55	15	0	0	73-16 ✓	Byers Stockless	W.C. Byers & Co. Ltd.	Low Walker 26/7/40 Green
25157	2nd „ ...	73	2	0	✓			55	10	0	0	73-16 ✓	Do Do	Do	Low Walker 22/7/40 Green
	3rd „ ...														
	Collective weight.														
53622	Stream	22	2	0	5	2	26	22	15	0	0	22 ✓	Redden (Engl.)	not stated	Coradley A. 14/10/40 Paul

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.	Stator-y.	Break-ing.	Supplied.		Per Rule.	Length.	Diam.	Length.					Cir.	Fathoms.		Ins.	Tons.	Fathoms.	Cir.
					Cwts.	qrs. lbs.															
12788	240	2 7/16	106 5/8	149 25/32	713	2	3	✓	240	2 7/16	steel (Emergency).	not stated	Retest 19/10/40 Ref.	TOWLINE	130	5 1/4	77.5	130	5 1/4		
16128	open shackles 106 5/8 x 149 12 1/2 for 2 7/16 steel.								60 fms short of EMERGENCY				Retest 15/11/41 Ref.	HAWSERS & WARPS	40ft			40ft			
															100	2 3/4	15.2	100	2 3/4		
Iron Stream Chain or Steel Wire	120	5		52.8					120	5	3-W		maker's test.								

Steering Gear, Type (Power or hand) Hastings steam hydraulic Alternative Means of Steering Hocks & Tackle to after winch

Steering Chains (Size and Test) telemotor control Windlass Steam efficient Boats 6 lifeboats

Ceiling in Holds, thickness and material none Cargo Battens, thickness, material and spacing steel battens in fore hold

Cargo Hatchways.—(Upper Deck) Steel O.T. hatchways 40 thick Thickness of Hatches 54 steel O.T covers

Size of Hatchways No. 1 (Fwd.) 8' x 8' No. 2 27 O.T. hatches to cargo tanks 4' 6" x 3' 6" No. 3 No. 4 No. 5 No. 6

Number of Shifting Beams and/or Fore and Afters none

Builder's Signature *For HARLAND AND WOLFF, LIMITED.*
W. Marshall
 Secretary

GENERAL DECLARATION. It should be stated (a) whether the vessel (if not a motorship) is fitted for the carriage and burning of oil used as fuel Motor ship

(b) whether the vessel, not being an oil tanker, is fitted for carrying oil as cargo oil tanker The positions in which oil is carried as fuel or cargo should be indicated, together with the flash point (where required to be inserted in the Notation).

Oil fuel is carried in bunkers situated along side of motor space, in deep tank forward of forward cofferdam and in double bottom under engines. Oil cargo is carried in 27 compartments between forward and after cofferdams, separated into three groups by two pump rooms. Lubricating oil cargo is carried in two tanks built into the after part of the fore hold.

This vessel has been built in accordance with the approved plans, the Secretary's letter and the Rules of the Society. The material and workmanship are good. All cargo tanks, oil fuel bunkers, deep tank forward, lubricating oil tanks in fore hold, fore and after peak tanks, fresh water tanks, double bottom compartments in motor space and cofferdams have been tested to Rule requirements and found satisfactory. Steering gear and windlass tested under working conditions and found satisfactory. Weather decks, w.t. bulheads, also oil lights have been satisfactorily tested. Bilge pumping arrangements tried and found in order. Freshwater vented & cut in.

The amount of Entry Fee £ 11 : 0 : 0 Fees applied for, 19.9. 1941

Special Survey Fee.... £ 6 1/4 : 18 : 6 Received by me, 19.

Travelling Expenses, if any £ 19 : 0 : 0

I am of opinion the Vessel should be Classed +100 A-1 carrying Petroleum in bulk. Eng. framing at bottom and at deck.

Signature W. M. Balfour. Surveyor to Lloyd's Register of Shipping.

State whether the Vessel has been built under Special Survey Yes

Certificate to be sent to Belfast Date of issue 23/10/41

Committee's Minute TUE. 14 OCT 1941

Character assigned +100 A-1
Carrying petroleum in bulk
Lloyd's reg. O.L. Ex.D.
note for S.R.L.
W. M. B.

2021
 200-1500
 oil reg. Lloyd's Register Foundation

0189 3/3

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.)

This vessel has been adapted for special war purposes and a series of ganties fitted on board. In the additional crew required accommodation has been provided on the upper deck within the bridge space. An emergency galley is fitted amidships on the bridge deck. The question of any restriction being necessary was submitted, see Belfast letter 29 Aug 1941 and the Secretaries reply dated 28 Aug 1941.

This vessel is in general respects a sister to the Motor Tanker 'Cairndale' built by Messrs Harland & Wolff, Belfast, Yard No 1014.

The following forging and casting reports are enclosed

Stern frame, Rudder frame, Rudder stock, main tiller, spare tiller, bearing rings also certificates for two masts and derricks. (7 Certificates)

PARTICULARS OF ELECTRIC WELDING (if employed)

Welding employed for angle butts and corners for all tightness and for non structural items.

SPECIAL NOTATIONS:—Either as part of the vessel's class or for record in the Register Book

D.F. ; E.S.D. :

Oil Eng; mch aft; Cruiser stern

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

1st Bower 46 43-0-0 including pins 47-3-0.
2nd " 46 42-3-8 " " 47-1-21.
3rd " " " " " "

PARTICULARS FOR RECORD in the REGISTER BOOK.—Length of Poop

93 ft., R.Q.D. ft., Bridge 46 ft., Forecastle 51 ft.

(in feet and tenths). When the Poop or Forecastle are joined to the B.D., this should be distinctly stated

No

Official No. 168212

Signal Letters

Extreme Breadth over Belting

(Circ. 1611)

Over-all Length

483

No. and Material of Decks

1 dk steel + 2nd dk steel clear of cargo tanks

Parts of Bottom of Vessel coated with cement or approved composition

none

Particulars of composition (if fitted) and of approval

none

PARTICULARS OF WATER BALLAST:—

(Comprising all tanks which may be used for Water Ballast. (Circ. 1284)
Wells are not to be included in the lengths of the tanks, but Cofferdams and Dry Tanks (if tested) are to be included.)

Where Fitted.	Length. Feet.	Water Capacity. Tons.	Where Fitted.	Length. Feet.	Water Capacity. Tons.
Double bottom, aft, under Engines	69.5	156	Fore peak tank,		150
Double bottom, under Engines and Boilers,			After peak tank,		88
Double bottom, if under Engines only,			Deep tank, aft,		
Double bottom, if under Boilers only,			Deep tank, forward,	247.5	275
Double bottom, forward,			Other tanks, if fitted,		
Total length (if continuous) and Capacity			(If necessary, furnish further information by sketch.)		

Order for Special Survey No. 888

Date

10.10.39

Dates of Surveys held while building

1940
Jan 5, 11, 17, 30 Feb 2, 5, 7, 9, 13, 14, 15, 20, 27 Mar 4, 7, 12, 15, 27 Apr 2, 10, 12, 16, 19, 23, 26, 29 May 1, 6, 8, 12, 14, 20
23, 24, 27, 29, 30 June 5, 9, 10, 11, 12, 13, 17, 19, 21, 25, 26, 27 July 2, 5, 9, 12, 25, 27, 30, 31 Aug 2, 5, 6, 7, 9, 12
13, 14, 19, 26, 27, 28, 29 Sept 2, 4, 5, 11, 12, 13, 17, 18, 20, 25, 26, 30 Oct 2, 3, 4, 7, 8, 9, 10, 11, 14, 16, 20, 29
30, 31 Nov 1, 4, 6, 8, 12, 13, 14, 15, 18, 19, 21, 22, 23, 27, 28, 29 Dec 2, 3, 4, 5, 10, 13, 17, 20, 23, 27, 31 Jan 1, 3, 9,
13, 14, 15, 16, 21, 24, 26, 27, 28, 29 Feb 1, 7, 11, 13, 17, 18, 24, 26, 27 Mar 3, 4, 5, 6, 7, 10, 11, 12, 14, 15, 17, 18, 19, 20, 24, 26,
26, 27, 28, 31 Apr 2, 4, 7, 8, 9, 10, 12, 16, 19 May 13, 21 June 2, 6, 9, 11, 17, 26, 27 July 7, 9, 10, 11, 17, 19
21, 22 Aug 1, 5, 6, 7, 11, 13, 15, 22, 23, 25, 26, 27, 28, 29, 30

Total No. of Visits 204