

Rpt. 1.

STEEL STEAMER or MOTORSHIP.

Received at London Office

30 MAR 1937

State if Report has been sent on the Freeboard of the Vessel *No*State if Report is sent on the Machinery of the Vessel *Yes*Port of *HULL*

Date of completion of report

Survey held at *Selby & Hull*Date First Survey *3rd November, 1936* Last Survey *19th March, 1937*On the *Steel Single Screw Ketch "ARCTIC PIONEER"*State Type *Full Scantling*State Type of Erections *No. 2 & 3*TONNAGE under Tonnage Deck... *431.09*CLASS *+100A1* "Steam Trawler" as condition of Class *No*Built at *Selby*Launched *Jan 14th 1937* Yard No. *1177*Builders *Cochran & Sons Ltd.*Owners *Boyd Line Ltd.*Managers *✓*
(Where necessary to be entered in Reg. Book.)Residence *Hull*Port of Registry *Hull*

If surveyed while building, afloat, or in dry dock

*While building & afloat.*Do. of space or spaces between Tonnage Dk. and Upper Dk. *✓*Total *431.09*Gross Tonnage *501.17*Register Tonnage *188.99*

REGISTERED DIMENSIONS.

Length *166.75*
Breadth *27.65*
Depth *14.2*Length from fore part of stem to after part of stern post on summer L.W.L. See Sec. 3 (1a) *165'-6"*Breadth (greatest moulded) *B 27'-6"*Depth, at middle of length from top of keel to top of beam at side of uppermost continuous deck. See Sec. 3 (1c) *D 15'-0"*1st Longitudinal Number (L x D) *= 2482*2nd Numeral L x (B + D) *= 7034*Framing Depth "d," at middle of length. See Sec. 3 (1d) *✓*Proportions—Depth to Length—Uppermost continuous deck to top of keel *✓*
Do. Long Bridge to top of keel *✓*Draught Moulded *✓*

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.
FRAMES, Spacing amidships	<i>20 x 2 1/2</i>	<i>see plans</i>	Bracket Floors, Frame		
" " from length to Collision bulkhead	<i>17 x 16</i>	<i>✓</i>	" " Reversed Frame		
" " in peaks	<i>A</i>	<i>✓</i>	" " Vertical Struts		
DE FRAMING.			Centre Girder, depth and thickness amidships		
Frame Amidships, <i>20 x 2 1/2</i>	<i>5 3.38 B.A.</i>	<i>✓</i>	" " top Angles		
" " Extends up to	<i>deck</i>	<i>✓</i>	" " bottom Angles		
Reversed Frame Amidships, Angle	<i>3 3.38</i>	<i>✓</i>	Side Girders, No. each side and thickness		
" " Extends <i>across floors</i>	<i>5</i>	<i>✓</i>	Margin Plate depth (excl. of flange) and thickness		
Depth of Framing Girder	<i>5</i>	<i>✓</i>	" " Vertical Angle to Tank side Bracket abaft 1/4 len. from stem		
Frames in Uppermost Continuous 'tween Decks, Angle, [or]	<i>✓</i>		" " Vertical Angle to Tank side Bracket forward 1/4 len. from stem		
" " Second 'tween Decks, Angle, [or]	<i>✓</i>		" " Gussets, spacing and scantling abaft 1/4 len. from stem		
" " Third " " "	<i>✓</i>		" " Gussets, spacing and scantling forward 1/4 len. from stem		
Framing in Peaks, <i>20 x 2 1/2</i>	<i>5 3.38 B.A.</i>	<i>✓</i>	Tank Side Brackets, height above base line at toe of Frame and thickness		
Diameter and Spacing of Rivets through Frame and Shell Plating amidships	<i>3/4 5 1/4</i>	<i>✓</i>	INNER BOTTOM PLATING.		
State if Frame Joggled	<i>no</i>	<i>✓</i>	Breadth and thickness of Middle Line Strake		
FRAMING ARRANGEMENTS (Sec. 12), state system and particulars	<i>Midship scantlings closer framing riveting. Stringer 9 1/4 x 7/16 angle on face of frames. Additt. Keelson.</i>	<i>✓</i>	Thickness of remainder in Holds		
STRENGTHENING OF BOTTOM FORWARD. State Particulars	<i>no</i>	<i>✓</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?		
DOUBLE BOTTOM.			BEAMS.		
Single Bottom.			Uppermost Continuous Deck, amidships	<i>6 3 40 B.A.</i>	<i>✓</i>
Floors, Depth and thickness at mid-line in Holds	<i>18.38</i>	<i>✓</i>	" " in way of Bridge, Angle, [or]		<i>Alternate</i>
Height of Brackets at side above base line at toe of frame	<i>✓</i>		Spacing		
Middle Line Keelson, on Floors, Angles	<i>12 x 4 x 4 x 36th</i>	<i>✓</i>	Second Deck, amidships, Angle, [or]		<i>✓</i>
" " Through Plate or Intercoastal Plate	<i>✓</i>		Spacing		
" " Foundation Plate on Floors	<i>✓</i>		Third Deck, amidships, Angle, [or]		<i>✓</i>
" " Flat Plate Keel Angles	<i>✓</i>		Spacing		
Side Keelsons, No. each side	<i>one</i>	<i>✓</i>	Fourth Deck, amidships, Angle, [or]		<i>✓</i>
" " thickness of Intercoastal Plate	<i>✓</i>		Spacing		
" " Angles	<i>5 4 46 50 in B.S.</i>	<i>✓</i>	Poop Deck, Angle, [or]		<i>✓</i>
DOUBLE BOTTOM.			Spacing		
Solid Floors, thickness and spacing			Bridge Deck, Angle, [or]		<i>✓</i>
" " Are Frame and Reversed Frame joggled?			Spacing		
Bracket Floors, breadth and thickness at middle line			Forecastle Deck, Angle, [or]	<i>4 3 40</i>	<i>✓</i>
" " breadth and thickness at margin plate			Spacing	<i>30"</i>	<i>✓</i>

PILLARS AND DECKS.			
	INCHES IN SHIP.	Any Departure from Approved Plans to be Noted.	
PILLARS, No. of Rows.....	<i>one</i>	✓	
" in 'tween Decks, Size and Spacing			
" " " " " "	<i>3" dia. 6" thick</i>		
" in Holds " " " "	<i>Arrangements</i>		
" " " " " "			
Centre Line Bulkhead.			
Stiffeners and Spacing.....			
Plating, thickness of			
STRINGERS AND DECKS.			
Uppermost Continuous Deck.			
Stringer Plate, breadth and thickness in Wells.....	<i>50 x 3 1/2 x 30 x 3 1/2</i>	✓	
" " " " " " in way of Bridge	✓		
" Angle in Wells	<i>33° 38'</i>	✓	
Thickness of Plating abreast Deck openings in Wells	<i>35 lb. x 3 1/2</i>	✓	
Thickness of Plating abreast Deck openings in way of Bridge	<i>38 x 3 1/2</i>	✓	
Thickness of Plating within line of openings.....	✓		
If Sheathed, material and thickness	<i>5 x 3 pitch pine</i>		
Second Deck.			
Stringer Plate, breadth and thickness in Wells...	✓		
Stringer Plate, breadth and thickness in way of Bridge			
Thickness of Plating abreast Deck openings in way of Bridge			
Thickness of Plating abreast Deck openings in way of Bridge			
Thickness of Plating within line of openings.....			
If Sheathed, material and thickness			
Third Deck.			
Stringer Plate, breadth and thickness.....	✓		
If Plated, state thickness.....			
Fourth Deck.			
Stringer Plate, breadth and thickness.....	✓		
If Plated, state thickness			
Poop Deck.			
Stringer Plate, breadth and thickness	✓		
Plating, Sheathing, material and thickness ..			
Bridge Deck.			
Stringer Plate, breadth and thickness.....	✓		
Plating, Sheathing, material and thickness ..			
Forecastle Deck. Whiteback			
Stringer Plate, breadth and thickness.....			
Plating, Sheathing, material and thickness ..			

SCANTLINGS.				AS IN VESSEL.				ANY DEPARTURE FROM APPROVED PLANS TO BE NOTED.		EDGES. <i>Yes</i>		RIVETING.			
STRAKES.		AMIDSHIPS.		FORWARD.		AFT.		State if joggled?		SINGLE OR DOUBLE.		No. OF ROWS OF RIVETS.		BUTTS.	
		Breadth.	Thickness.	Thickness.	Thickness.										
		Inches.	Inches.	Inches.	Inches.										
		Inches.	Inches.	Inches.	Inches.										
<i>Parboard</i>															
<i>FLY PLATE KEEL</i>		<i>32</i>	<i>.50</i>	<i>.43</i>	<i>.43</i>	<i>✓</i>		<i>Double</i>	<i>3/4</i>	<i>5/8</i>	<i>362</i>	<i>3/4</i>	<i>278</i>	<i>Strapped</i>	
" DBLG. (if any)															
BOTTOM PLATING, No. of Strakes <i>(2...)</i>		<i>.42</i>	<i>.38</i>	<i>.38</i>	<i>.38</i>	<i>✓</i>		"	"	"	<i>2</i>	"	"	<i>lapped</i>	
BILGE PLATING, No. of Strakes <i>(1...)</i>		<i>.42</i>	<i>.38</i>	<i>.38</i>	<i>.38</i>	<i>✓</i>		"	"	"	<i>2</i>	"	"	"	
SIDE PLATING, No. of Strakes <i>(1...)</i>		<i>.43</i>	<i>.38</i>	<i>.38</i>	<i>.38</i>	<i>✓</i>		"	"	"	<i>362</i>	"	"	"	
UPPER DECK, Sheer-strake <i>(1...)</i>		<i>.42</i>	<i>.625</i>	<i>.50</i>	<i>.50</i>	<i>✓</i>		"	"	"	<i>362</i>	"	"	<i>Strapped</i>	
UPPER DECK, Sheer-strake in Bridge ...															
STRAKE BELOW SHEER-strake <i>(1...)</i>		<i>.42</i>	<i>.38</i>	<i>.38</i>	<i>.38</i>	<i>✓</i>		"	"	"	<i>362</i>	"	"	<i>lapped</i>	
STRAKE BELOW SHEER-strake in Bridge ...															
POOP SIDE PLATING															
BRIDGE SIDE PLATING															
FORE'C'TLE SIDE PLATING								<i>Single</i>	"	"	<i>1</i>	"	"	<i>Strapped</i>	

Total No. of W.T. BULKHEADS in Vessel—		CASTING OR FORGING.		SCANTLING.		MAKER'S NAME.		Any departure from approved plans to be noted.	
Extending to Upper Deck (Sec. 3 c)		4							
" Deck next below		3							
As per Rule									
PLATING THICKNESS.		STIFFENERS.				VERTICAL.		HORIZONTAL.	
		SCANTLING.		SPACING.					
MIDSHIP BULKHEAD, Upper tween decks									
" " Second									
F.W. Tank on this bulkhead		51		42		5 x 3 in. 30		32 in	
" " Third		30		30		3 x 3 in. 30		4 in 20	
ft deep tank bulkhead		80		38		4 x 3 in. 30		24 in	
" " Holds		26		26		3 x 3 in. 30		24 in	
COLLISION		98/100		38		6 x 3 in. 30		24 in	
(in Hold)		26		26		3 x 3 in. 30		24 in	
AFTER PEAK		6 in 6		42		3 x 3 in. 30		24 in	
		26		26					
Manufacturer's Name or Trade Mark of the Steel used in the construction of the Vessel (state process of manufacture)									
Corsett & Co. Ltd. Durham S. & Co. Appleby-Nottingham S. Co.									
Colvilles Ltd. Dorman Export Co.									
Has the Steel been tested as required by the Rules?									
Yes									

CHAIN CABLES.											HAWERS 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.
54142	150	1 3/16	25 3/8	38	111.27	108 1/2	150	1 3/16	Stud	B. Hingle & S.	C.H. 16/2/37; Paul.	TOWLINE...					
												HAWSERS & WARPS }	60 1/2	✓		60 1/2	✓
												"	60 1/2	✓		60 5/8	✓
												"	Combination wire				
Iron Steam) Chain or) Steel Wire)																	

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

This vessel has been built in accordance with the approved plans and instructions and in conformity with the Rules for the class contemplated.

The materials and workmanship are satisfactory.

No freeboard has been assigned.

The forward ballast tank has been tested to Rule requirements.

The fore and after peaks, watertight flat aft, decks, casings, hand pumps, steering gear, windlass and watertight door have been tested and found satisfactory.

The amount of Entry Fee £ 4 : - : - Fees applied for, *ad*
Special Survey Fee.... £ 50 : 2 : - **25 MAR 1937**
Travelling Expenses, if any £ 1 : 2 : 6 1 4 1937 *3/4*
State whether the Vessel has been built under Special Survey *Yes.*
Certificate to be sent to **HULL** Date of issue *21/4/37*
Committee's Minute **FRI 2 APR 1937**
Character assigned *+ 100A1*
Steam Trawler
Lloyd's A.C.D. + class 3.37 Spec CL
Note Log

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.)

Sister vessels: "Arctic Ranger" Yard No 1175 Ave P.E. Rpt. 47625.
"Arctic Explorer" " 1176 " " 47621.

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

Steam Trawler; Incl. aft; Lloyd's A & P; O.L. 187.5 ft; 186.

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

1st Bower 6.1.22; J.D.; 3791; 11/7/35.
2nd " 5.2.7; J.D.; 4300; 6/11/36.
3rd " ✓

PARTICULARS FOR RECORD in the REGISTER BOOK.—Length of Poop ✓ ft., R.Q.D. 88.0 ft., Bridge ✓ ft., Forecastle 27.0 ft.
(in feet and tenths). When the Poop or Forecastle are joined to the B.D., this should be distinctly stated ✓

No. and Material of Deck 186

Official No. 165649; Signal Letters / Is bottom of vessel coated with cement Yes if not give particulars of composition

PARTICULARS OF WATER BALLAST.—

Where Fitted.	*Length. Feet.	Water Capacity. Tons.	Where Fitted.	*Length. Feet.	Water Capacity. Tons.
Double bottom, aft,			Fore peak tank		
Double bottom, under Engines and Boilers,			After peak tank,		
Double bottom, if under Engines only,			Deep tank, aft,		
Double bottom, if under Boilers only,			Deep tank, forward,	4.25	10.0
Double bottom, forward,			Other tanks, if fitted,		
			(If necessary, furnish further information by sketch.)		
Total capacity of double bottom					

* The wells are not to be included in the lengths of the tanks (See Circular No. 1284).

Order for Special Survey No. 3120

Date 6th October, 1936

Dates of Surveys held while building

1936:— Nov 13.20.27.28 Dec 4.6.15.19.23.

1937:— Jan 4.4.11.13.19.27. Feb. 3.5.20.24. Mar. 16.18.19.19.

Total No. of Visits 23.