

Yes

Yes

State Type *(Full Scantling, Complete Superstructure with or without Tonnage Openings)* *Free Scantling* State Type or Elections *Free Scantling*

Register Tonnage 6370.01 1st Longitudinal Number (L x D).....=18742.5 Managers.....
(Where necessary to be entered in Reg. Book.)

Depth	36.7.	Draught Moulded	26-10 3/8	4 1/2 ft. Williams, and 1/2 ft.
-------	-------	-----------------	-----------	---------------------------------

	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>Longitudinal Framing</i>		Bracket Floors, Frame	✓
" " from 1/2 length to Collision bulkhead.....	<i>See appended list</i>		" " Reversed Frame	✓
" " in peaks..... <i>after peak</i>	<i>24</i>		" " Vertical Struts	✓
SIDE FRAMING.			Centre Girder, depth and thickness amidships	<i>64 1/2 x 60</i>
Frame Amidships, Angle, [or]	<i>Longitudinal Framing</i>		" " top Angles	<i>3 1/2 x 3 1/2 x 57</i>
" " Extends up to	<i>See appended list</i>		" " bottom Angles	<i>4 x 4 x 60</i>
Reversed Frame Amidships, Angle	<i>list</i>		Side Girders, No. each side and thickness	<i>Two 78 under Engine</i>
" " Extends up to			Margin Plate depth (excl. of flange) and thickness	<i>57</i>
Depth of Framing Girder			" " Vertical Angle to Tank side Bracket abaft 1/2 len. from stem	✓
Frames in Uppermost Continuous 'tween Decks, Angle, [or]			" " Vertical Angle to Tank side Bracket forward 1/2 len. from stem	✓
" " Second 'tween Decks, Angle, [or]			" " Gussets, spacing and scantling abaft 1/2 len. from stem	✓
" " Third " " " " "			" " Gussets, spacing and scantling forward 1/2 len. from stem	✓
Framing in Peaks, Angle or	<i>10 x 3 1/2 x 40 RANES</i>		Tank Side Brackets, height above base line at toe of Frame and thickness	<i>Longitudinal Framing on side Transverse only</i>
Diameter and Spacing of Rivets through Frame and Shell Plating amidships	<i>as per list</i>		INNER BOTTOM PLATING, in Engine Room	
State if Frame Joggled			Breadth and thickness of Middle Line Strake	<i>61 x 57</i>
PANTING ARRANGEMENTS (Sec. 7), state system and particulars)	<i>Close spaced longitudinal & transverse</i>		Thickness of remainder in Holds	✓
STRENGTHENING OF BOTTOM FORWARD. State Particulars	<i>On ship thickness of A.B.C strake maintained to fore end of longitudinal framing, 74 in way of ordinary floor in fore hold to Collision Bulk 6 x 6 single beam angle 3 side keelson</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>57 1/2 in way of Engine Room</i>
SINGLE BOTTOM, in Fore Hold			BEAMS.	
Floors, Depth and thickness at mid-line in Holds	<i>42 x 42</i>		Uppermost Continuous Deck, amidships in Wells, Angle, [or]	<i>Longitudinal Beams</i>
Height of Brackets at side above base line at toe of frame	<i>straight across</i>		" " in way of Bridge, Angle, [or]	<i>See appended list</i>
Middle Line Keelson, on Floors, Angles,	<i>6 x 3 1/2 x 50</i>		Spacing	<i>80</i>
" " " " Through Plate or Intercoastal Plate	<i>50</i>		Second Deck, amidships, Angle, [or]	
" " " " Foundation Plate on Floors	<i>18 x 50</i>		Spacing	
" " " " Flat Plate Keel Angles	<i>4 x 4 x 63</i>		Third Deck, amidships, Angle, [or]	✓
Side Keelsons, No. each side	<i>Four</i>		Spacing	
" " thickness of Intercoastal Plate	<i>42</i>		Fourth Deck, amidships, Angle, [or]	✓
" " Angles	<i>6 x 3 1/2 x 50</i>		Spacing	
DOUBLE BOTTOM, in Engine Room			Poop Deck, Angle, [or]	✓
Solid Floors, thickness and spacing	<i>48 78 in way of Engine Room 2-8 apart</i>		Spacing	
" " Are Frame and Reversed Frame joggled?	<i>Yes</i>		Bridge Deck, Angle, [or]	<i>Longitudinal Beams</i>
Bracket Floors, breadth and thickness at middle line	✓		Spacing	<i>80</i>
" " breadth and thickness at margin plate	✓		Forecastle Deck, Angle, [or]	<i>80</i>
			Spacing	

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.....	Three in Bridge 3" dia			✓		Stringer Plate, breadth and thickness in way of Bridge			✓ 47 2nd Deck
" " " " " "	in 'tween Decks, Size and Spacing.....			✓		Thickness of Plating abreast Deck openings in way of Wells			✓
" " " " " "	" " " " " "			✓		Thickness of Plating abreast Deck openings in way of Bridge			✓
" " " " " "	in Holds 2 01 Cargo hold			✓	8 1/2 x 3 1/2 x 3 1/2 x 4 1/2 } double channel with 10 x 40. gus. plates. in way of transverse at ends of hold	Thickness of Plating within line of openings...			✓
" " " " " "	" " " " " "			✓		If Sheathed, material and thickness			Steel
Centre Line Bulkhead.						Third Deck.			
Stiffeners and Spacing.....	Longitudinal 5' apart approved plan spaced 5' 6" apart			✓		Stringer Plate, breadth and thickness.....			✓
Plating, thickness of	59 48 42 39 42 44			✓	11-8	If Plated, state thickness.....			
STRINGERS AND DECKS.						Fourth Deck.			
Uppermost Continuous Deck.						Stringer Plate, breadth and thickness.....			✓
Stringer Plate, breadth and thickness in Wells	76 84			✓		If Plated, state thickness			
" " " " " "	in way of Bridge			✓	1.00	Poop Deck.			
" " " " " "	Angle in Wells			✓	8 8 85	Stringer Plate, breadth and thickness			✓
Long overlap in way of transverse Bulkheads as per approved plan				✓		Plating, Sheathing, material and thickness ...			
Thickness of Plating abreast Deck openings in way of Wells	84			✓		Bridge Deck.			
Thickness of Plating abreast Deck openings in way of Bridge	84			✓		Stringer Plate, breadth and thickness.....			44 46
Thickness of Plating within line of openings...	70			✓		Plating, Sheathing, material and thickness ...			32 Steel
If Sheathed, material and thickness	Steel			✓		Forecastle Deck.			
" " " " " "	" " " " " "			✓		Stringer Plate, breadth and thickness.....			47 40
Second Deck. (Summer Deck.)						Plating, Sheathing, material and thickness ..			36
Stringer Plate, breadth and thickness in Wells...	71 1/2 47 40			✓		" " " " " "			50 under bulkhead

EQUIPMENT NO. 54996												LETTER gt		ANCHORS.	
Number of Certificate.	Anchors.	WEIGHT, EX. STOCK			WEIGHT OF ANCHOR ^{HEAD}			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.			
89578	1st Bower ...	97	0	0	63	0	4	66	2	2	0	95 - 0 - 0	Stockless (Shankless)	H. J. Hargreaves & Sons	Hull 31/12/27 J. Green.
89579	2nd „ ...	92	0	0	68	0	0	64	0	0	0	95 - 0 - 0	“	“	“ “ “
89587	3rd „ ...	82	2	21	52	0	0	60	0	0	0	81 - 0 - 0	“	“	“ “ “
	Collective weight.	271	2	21								271 - 0 - 0			
89365	Stream	28	2	7	7	2	0	27	11	3	14	28 - 0 - 0	Iron Link.	H. J. Hargreaves & Sons	Hull 30/9/27 J. Green.

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.		Length.	Cir.	
	Fathoms.	Ins.	Tons.	Tons.	Cwts.	qrs.	lbs.	Cwts.	Fathoms.	Ins.				Fathoms.	Ins.	Tons.	Fathoms.	Ins.	
80592	165 7/8	2 1/4	125 1/2	175 1/2	606	2	26				H. J. Hargreaves & Sons	Hull 31/12/27 J. Green.	TOWLINE	130	7	113	130	7	
80596	165 7/8	2 1/4	125 1/2	175 1/2	606	3	10	1200	0	0	330	2 1/4	"	100	2 3/4	22	100	2 3/4	
Iron Stream (Galvanizing Steel Wire)		Cir.			1213	2	8			Cir.									
	120	6"	85 1/4						120	6"		R. J. Hargreaves & Sons		"	20	100	8"	20	100

Steering Gear, *Steam* Hydraulic-Electric *Frankie 160* Independent means of steering by
Steering Gear, Hand Blocks *Double led to bridle on upper deck*

Boats *4 - lifeboats, 1 Workman, 16.0* Windlass *Steam, Clarke Chapman 60*
Steering Chains, Size and Test ☒

Ceiling in Holds, thickness and material *Forward Cargo Hold 2 1/2 in. w. oil* Cargo Battens, thickness, material and spacing ☒
Downward Cargo Hatch 11. 3 x 15. 5 2. 6. Coaming 1. 4 Steel Cover 50 Thick 7 x 3 x 36 B.A. 1/2 in.
Cargo Hatchways. (Upper Deck) *6-0 x 4-0 2-6 Coaming* Thickness of Hatches *Steel Cover 60 Thick*

Size of No. 1 Hatchway (Forward) ☒ No. 2 ☒ No. 3 ☒ No. 4 ☒ No. 5 ☒ No. 6 ☒

Number of Shifting Beams and/or Fore and Afters ☒

FOR FURNESS SHIPBUILDING CO. LIMITED
Builder's Signature *John Mc Govern* DIRECTOR

GENERAL DECLARATION This vessel has been built in accordance with the approved plans. The Secretary's letters from 5th February 1927 to 24th May 1928, and in general conformity with the Society's Rules and Regulations for the class. Contemplated. She is built to the Longitudinal Framing, Bracketless System.

The main Oil Cargo Tanks, Summer Tanks, Cofferdams, Oil fuel Tanks, Double bottom Tanks under machinery space, Sole vapor Peak Tanks have been filled and tested to Rule head of water. The upper portion of Collision Bld. Forward pump room bulkhead, Weather Deck clear of Oil Tanks and the Steel Hatch covers to Forward Hatch have been tested by hose, all with satisfactory results.

The Electric Hydraulic Steering Gear, Steam Windlass Winches, Auxiliary means of steering by tackle have tested under working conditions & found satisfactory. Oranged. Freeboard marked on vessel's side and reefed.

Copies of the Profile Deck plan, Midship Section & Outright Transverse Bulkhead are P.T.O

The amount of Entry Fee £ 12 : 0 : 0 Fees applied for, 20.6.1928
Special Survey Fee.... £ 690 : 18 : 0 Received by me, 25.6.28
Travelling Expenses, if any £ *14 13 4* I am of opinion the Vessel should be Classed *100 A1* Carrying Petroleum in Bulk. Longitudinal Framing (Bracketless System)
State whether the Vessel has been built under Special Survey *Yes* Signature *R. H. Phipps* Surveyor to Lloyd's Register of Shipping.
Certificate to be sent to *Middleham* Date of issue *26/6/28*

Committee's Minute *TUES. 26 JUN 1928*
Character assigned *+ 100 A1*

Carryg. Pet. in Bulk
Lloyd's axcp. + Lark 6. 28 Cf.
Oil Engines 2 50 - 150 H.P.
White Stk
Return plans inclg to hull.
Mich plans not.
26/6/28
(22)

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 copy of the Plans should be embodied.)

Forwarded herewith: Together with 3 Drawing and Casting reports.

The following is a list of approved plans. Copies of which are retained in the home office. The copies in our possession are being retained for reference in dealing with the sister vessels. Yard No. 123-4, and have been endorsed with the vessel's name.

Double bottom Section - S.T. Transverse Bld.

Profile and Deck Plans

Stem Frame & Rudder

" " " amended

Modification to middle line Bld. web.

Bottom Sheet plating

Keel beam riveting (2 plans)

Holes for pipeline in Transverse Bld. web.

Alternative Butt angle Section

Arrangement at lower end of Trans Bld. webs.

After End Section

Alternative drain holes in Bottom longitudinal

Alteration to keel on 47. Bld.

After. or. Fuel Tank

Double bottom Transverse

Am. Man. of Steering

Friendship shell expansions

After Deck Tank

Fore and Aft Section

Forward Cofferdam and fuel Bunkers

After end Section

Collision Bld.

Amended Arr. of shell overlaps and riveting

After Deck Tank & B Casings

Alternative scantlings of Transverse Bld.

Increase in Bld. plating due to stress

C.L. Bld. Transverse in Pump Room (2)

Deck Girders in Double Bottom Space

Framing in Tween. 5th app.

Double Bottom in Machinery Space

Section in way of Bridge

Longitudinal cut at Transverse in Pump Room

Sheet plate covers to Forward Cargo

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

1st Bower	57.2.14	D.D.W.	2175	16-5-19.
2nd "	53-1-14	H.C.L	841	25-7-18
3rd "	47-1-0	K.H.	5053	29-11-27.

PARTICULARS FOR RECORD in the REGISTER BOOK.—Length of Poop ☒ ft., R.Q.D. ☒ ft., Bridge 34.6 ft., Forecastle 37.5 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) 2 Dks. Steel

Official No. 160711 ; Signal Letters

Is bottom of Vessel coated with cement. ☒ Does hold water except if not

PARTICULARS OF WATER BALLAST.—

Where Fitted.	*Length. Feet.	Water Capacity. Tons.	Where Fitted.	*Length. Feet.	Water Capacity. Tons.
Double bottom, aft, under Engines <input checked="" type="checkbox"/>	40.0	76	Fore peak tank,	25.25	20
Double bottom, under Engines and Boilers, <input checked="" type="checkbox"/>			After peak tank,	24.0	24
Double bottom, if under Engines only, aft <input checked="" type="checkbox"/>	52.8	287	Deep tank, aft, Forward Cofferdam	10.3	75
Double bottom, if under Boilers only, <input checked="" type="checkbox"/>			Deep tank, forward, after "	4.1	35
Double bottom, forward, <input checked="" type="checkbox"/>	92.8		Other tanks, if fitted,		
Total capacity of double bottom		363	(If necessary, furnish further information by sketch.)		

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

Act. Tanks Tested to Rule Requirements

Order for Special Survey No. 1425

Date 26-2-27.

Dates of Surveys held while building

1924: Mar 15. 16. 18. 22. 23. Apr 1. 2. 4. 8. 13. May 4. 11. 12. 20. 23. 25. 26. 27. 30. Jun 1. 2. 9. 13. 14. 22. 28. Jul 6. 14. 27. Aug 2. 13. 14. 15. 16. 23. 28. 29. 1928: Jan 3. 5. 6. 9. 10. 11. 12. 13. 14. 19. 20. 21. 23. 24. 25. 26. 27. 28. 30. 31. Feb 1. 2. 3. 6. 7. 8. 9. 10. 11. 12. 13. 14. 15. 16. 17. 18. 19. 20. 21. 22. 23. 24. 25. 26. 27. 28. 29. Mar 1. 2. 3. 5. 6. 7. 8. 9. 13. 14. 19. 20. 23. 27. 28. Apr 3. 4. 11. 12. 17. 18. 24. 25. May 2. 4. 7. 10. 14. 15. 17. 18. 21. 24. 30. Jun 4. 5. 6. 7. 8. 9. 12. 13. 15.

Total No. of Visits

"FBIRD" PARTICULARS OF LONGITUDINAL FRAMING. (Bracketless System)

FRAMING.	AMIDSHIPS.			ENDS.			AMIDSHIPS.			ENDS.			RIVETING.					
	In Ship.			In Ship.			Per Rule or as approved.			Per Rule or as approved.			Rivets in Longitudinal Frames. Diam. Spang.	Spacing of Rivets on each side of Transverses and Bulkheads. Inches.	Rivets in Brackets to Bulkheads.			
	In. Ship.	In. Ship.	In. Ship.	In. Ship.	In. Ship.	In. Ship.	In. Ship.	In. Ship.	In. Ship.	In. Ship.	In. Ship.	In. Ship.			Number.	Diameter.		
Between Decks	6	3	40	✓	6	3	40	✓	7/8	5/16	3/4	5/16	3/4	3/4	10 each side of Transverse	3/4	5/16	
Farthest Continuous	9	3 1/2	39	✓	9	3 1/2	39	✓	9	3 1/2	40	✓	9	3 1/2	40	✓	5/16	3/4
BA. N.B.S. No. 1	9	3 1/2	39	✓	9	3 1/2	39	✓	9	3 1/2	40	✓	9	3 1/2	40	✓	5/16	3/4
" 2	9	3 1/2	39	✓	9	3 1/2	39	✓	9	3 1/2	40	✓	9	3 1/2	40	✓	5/16	3/4
" 3	10	3 1/2	40	✓	10	3 1/2	40	✓	10	3 1/2	44	✓	10	3 1/2	44	✓	5/16	3/4
" 4	10	3 1/2	40	✓	10	3 1/2	40	✓	10	3 1/2	48	✓	10	3 1/2	48	✓	5/16	3/4
" 5	11	3 1/2	48	✓	11	3 1/2	48	✓	11 1/2	3 1/2	44	✓	11 1/2	3 1/2	44	✓	5/16	3/4
" 6	12	3 1/2	48	✓	12	3 1/2	48	✓	11 1/2	3 1/2	56	✓	11 1/2	3 1/2	56	✓	5/16	3/4
" 7	12	3 1/2	48	✓	12	3 1/2	48	✓	12	3 1/2	50	✓	12	3 1/2	50	✓	5/16	3/4
" 8	12	3 1/2	50	✓	12	3 1/2	50	✓	12	3 1/2	60	✓	12	3 1/2	60	✓	5/16	3/4
" 9	12 1/2	3 1/2	51.60	✓	12 1/2	3 1/2	51.60	✓	12 1/2	3 1/2	51.60	✓	12 1/2	3 1/2	51.60	✓	5/16	3/4
" 10	12 1/2	3 1/2	56.60	✓	12 1/2	3 1/2	56.60	✓	12 1/2	3 1/2	56.60	✓	12 1/2	3 1/2	56.60	✓	5/16	3/4
" 11	15 1/4	4 1/4	41.62	✓	15 1/4	4 1/4	41.62	✓	15 1/4	4 1/4	41.62	✓	15 1/4	4 1/4	41.62	✓	5/16	3/4
" 12	15 1/4	4 1/4	44.62	✓	15 1/4	4 1/4	44.62	✓	15 1/4	4 1/4	44.62	✓	15 1/4	4 1/4	44.62	✓	5/16	3/4
" 13																		
" 14																		
" 15																		
" 16																		
Amidships	30			✓	30			✓	30			✓	30			✓		
At Ends	30			✓	30			✓	30			✓	30			✓		
Top Longitudinals	✓			✓	✓			✓	✓			✓	✓			✓		
Bottom	17 1/4	4 1/4	52.68	✓	17 1/4	4 1/4	52.68	✓	17 1/4	4 1/4	52.68	✓	17 1/4	4 1/4	52.68	✓	10 rivets each side of Transverse 3/4 apart.	3/4
Amidships	30			✓	30			✓	30			✓	30			✓	3/4	
At Ends																	5' apart elsewhere, except in 10' tank 4' apart	
Transverses.																		
Depth and Thickness	21-28	38	✓	21-28	38	✓	21-28	38	✓	21-28	38	✓	21-28	38	✓	7/8	✓	
Face Angles	Range 3"		✓	Range 3"		✓	Range 3"		✓	Range 3"		✓	Range 3"		✓	"		
Rivets to Shell	3 1/2	3 1/2	40	✓	3 1/2	3 1/2	40	✓	3 1/2	3 1/2	40	✓	3 1/2	3 1/2	40	✓	7/8	4 1/2
Depth and Thickness	36-42	44	✓	36-42	44	✓	36-42	44	✓	36-42	44	✓	36-42	44	✓	7/8	4 1/2	
Face Angles	6	3 1/2	44	✓	6	3 1/2	44	✓	6	3 1/2	44	✓	6	3 1/2	44	✓	"	
Rivets to Shell	6	6	44	✓	6	6	44	✓	6	6	44	✓	6	6	44	✓	7/8	4
Depth and Thickness	81-54	48	✓	81-54	48	✓	81-54	48	✓	81-54	48	✓	81-54	48	✓	7/8	4	
Face Angles	6	3 1/2	40	✓	6	3 1/2	40	✓	6	3 1/2	40	✓	6	3 1/2	40	✓	7/8	4
Rivets to Shell	6	6	48	✓	6	6	48	✓	6	6	48	✓	6	6	48	✓	7/8	4
Brackets	8-2	11-8	8-2	✓	8-2	11-8	8-2	✓	8-2	11-8	8-2	✓	8-2	11-8	8-2	✓		
Reverse Frames	8-2	11-8	8-2	✓	8-2	11-8	8-2	✓	8-2	11-8	8-2	✓	8-2	11-8	8-2	✓		
Plated or liners.																		
Bridge Deck	6	3	32	✓	6	3	32	✓										
Awg. or Shltr. Dk.	8	3 1/2	44	✓	8	3 1/2	44	✓	8	3 1/2	44	✓	8	3 1/2	44	✓		
Upper	10	3 1/2	40	✓	10	3 1/2	40	✓	10	3 1/2	40	✓	10	3 1/2	40	✓		
Second																		
Third																		

of framing in peaks (if ordinary), Floors, Centre Girder, 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.