

## STEEL STEAMER or MOTORSHIP

MAY 13 1940

Received at London Office

State if Report has been sent on the Freeboard of the Vessel YES

State if Report has been sent on the Machinery of the Vessel YES

Date of completion of report 10.5.40

Port of MIDDLESBROUGH

No. 16835

Survey held at South Bank on Tees

Date First Survey 24.6.39

Last Survey 19.4.40

49

On the (State if Machinery fitted Aft and if Single, Twin or Triple Screw)

SINGLE SCREW STEAMER "NORMAN PRINCE"

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

COMPLETE SUPERSTRUCTURE WITH TONNAGE OPENING AFT

State Type of Erections

BRIDGE AND FLEET ON SHEDDER ON

TONNAGE under Tonnage Deck

1501.01

CLASS 100A1

WITH FREEBOARD

State if with freeboard as condition of Class

YES

Built at SOUTHBANK-ON-TEES

Do. of space or spaces between Tonnage Dk. and Upper Dk.

Length from fore part of stem to after part of stern most on summer L.W.L. See Sec. 3 (1a)

L 300

Launched 23<sup>RD</sup> DEC. 1939 Yard No. 1066

Total

Breadth (greatest moulded)

B 44

Builders MESSRS. SMITH'S DOCK CO. LTD

Gross Tonnage

1913.27

Depth, at middle of length from top of keel to top of beam at side of uppermost continuous deck. See Sec. 3 (1c)

D 26.75

Owners PRINCE LINE LTD.

Register Tonnage

919.06

1st Longitudinal Number (L x D) = 8025

Managers FURNESS WITBY &amp; CO. LD.

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

2nd Numeral L x (B + D) = 21,225

Residence LONDON.

## REGISTERED DIMENSIONS.

FEET.

Length

304.0

Breadth

44.2

Depth

16.5

Framing Depth "d" at middle of length. See Sec. 3 (1d)

16.29

Proportions—Depth to Length—Uppermost continuous deck to top of keel

11.3

Do. Long Bridge to top of keel

✓

Draught Moulded

18'-11 1/2"

If surveyed while building, afloat, or in dry dock

WHILE BUILDING AND AFLOAT.

## 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	26 1/2 ✓		Bracket Floors, Frame		
" " from 1/2 length amidships to Collision bulkhead	24 ✓		" " Reversed Frame		
" " in peaks	18" IN FORE PEAK ✓ 24" IN AFTER PEAK ✓		" " Vertical Struts		
SIDE FRAMING.			Centre Girder, depth and thickness amidships	35 1/2" x .46 ✓	
Frame Amidships, Angle [ or ]	9 3 .46 ✓ 9 3 .528 R ✓		" " top Angle	5 5 .40 ✓	
" " Extends up to	2ND DECK ✓		" " bottom Angles	8 1/2 3 1/2 .45 ✓	
Reversed Frame Amidships, Angle	NONE ✓		Side Girders, No. each side and thickness	ONE .33 ✓	
" " Extends up to			Margin Plate depth (excl. of flange) and thickness	31" x .42 ✓	
Depth of Framing Girder	8 ✓		" " Vertical Angle to Tank side Bracket abaft 1/2 len. from stem	3 1/2 3 1/2 .35 ✓	
Frames in Uppermost Continuous tween Decks, Angle [ or ]	6 3 .38 ✓		" " Vertical Angle to Tank side Bracket from forward 1/2 len. from stem to Panting Area	3 1/2 3 1/2 .35 IN NO 2 HOLD. 6 6 .507 IN NO 1 HOLD. ✓	
" " Second tween Decks, Angle [ or ]	✓		" " Gussets, spacing and scantling abaft 1/2 len. from stem	EVERY 4TH FEET .35 ✓	
" " Third " " "	✓		" " Gussets, spacing and scantling from forward 1/2 len. from stem to Panting Area	EVERY 2ND FEET .35 IN NO 2 HOLD. CONTINUOUS .35 IN NO 1 HOLD. ✓	
" " from 1/2 len. for'd. to 15" len. from Stem	FRS. 103 1/2 IN 9 3 .462 ✓ FRS. 117 1/2 IN 9 3 1/2 .422 ✓ FRS. 126 1/2 IN 8 3 .528 ✓		Tank Side Brackets, height above base line at toe of Frame and thickness	4'-6 1/2" x .36 ✓	
" " in Peaks, Angle [ or ]	6 3 .82 ✓		INNER BOTTOM PLATING.		
Diameter and Spacing of Rivets through Frame and Shell Plating amidships	3/4" @ 5 1/4" ✓		Breadth and thickness of Middle Line Strake	47" x .43-.38 ✓	
State if Frame Joggled	YES. ✓		Thickness of remainder in Holds	37 1/2 .34 ✓	
Are the scantlings and arrangements in the Panting Area in accordance with the Rules and/or as approved?	YES. ✓		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?	YES. ✓	
Are the scantlings and arrangements in way of the Bottom Forward in accordance with the Rules and/or as approved?	YES. ✓		BEAMS.		
SINGLE BOTTOM.			Uppermost Continuous Deck, amidships	7 3 .45 ✓	
Floors, Depth and thickness at mid-line in Holds			" " in Wells, Angle [ or ]	7 3 .45 ✓	
Height of Brackets at side above base line at toe of frame			" " in way of Bridge, Angle [ or ]	7 3 .45 ✓	
Middle Line Keelson, on Floors, Angles, [ or ]			Spacing	26 1/2" ✓	
" " Through Plate or Intercostal Plate			Second Deck, amidships, Angle [ or ]	7 3 1/2 .46 ✓	WELDED TO DECK
" " Foundation Plate on Floors			Spacing	26 1/2" ✓	
" " Flat Plate Keel Angles			Third Deck, amidships, Angle [ or ]	✓	
Side Keelsons, No. each side			Spacing	✓	
" " thickness of Intercostal Plate			Fourth Deck, amidships, Angle [ or ]	✓	
" " Angles			Spacing	✓	
DOUBLE BOTTOM.			Poop Deck, Angle [ or ]	✓	
Solid Floors, thickness and spacing	35 R 26 1/2 ✓		Spacing	✓	
" " Are Frame as Reversed Frame joggled	FRAMINGLY ✓		Bridge Deck, Angle [ or ]	5 3 .36 ✓	
Bracket Floors, breadth and thickness at middle line	NONE ✓		Spacing	26 1/2" ✓	
" " breadth and thickness at margin plate	NONE ✓		Forecastle Deck, Angle [ or ]	7 3 .34 ✓	
			Spacing	6 3 .34 ✓ 24" AND 18" ✓	



PILLARS AND DECKS.				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>				<b>ONE</b> ✓			
" in 'tween Decks, Size and Spacing.....				27/8" DIAM. SOLID 2 FMS. SPACES APART. ✓			
" " " " " "				" " " " " "			
" in Holds " "				WELDED SQUARE TUBULAR PILLARS ✓			
" " " " " "				AS APPROVED. ✓			
<b>Centre Line Bulkhead.</b>							
Stiffeners and Spacing.....				NONE. ✓			
Plating, thickness of .....				✓			
<b>STRINGERS AND DECKS.</b>							
<b>Uppermost Continuous Deck.</b>							
Stringer Plate, breadth and thickness in Wells				75" x 39 ✓			
" " " " " " in way of Bridge				75" x 34 ✓			
" Angle in Wells .....				5° 5' 39 ✓			
Thickness of Plating abreast Deck openings/ in way of Wells .....				37 ✓			
Thickness of Plating abreast Deck openings/ in way of Bridge .....				30 ✓			
Thickness of Plating within line of openings...				30 ✓			
If Sheathed, material and thickness .....				RET. 2 1/2" WOOD IN WAY OF ACCOMMODATION. ✓			
<b>Second Deck.</b>							
Stringer Plate, breadth and thickness in Wells...				66 34 ✓			
Stringer Plate, breadth and thickness in way of Bridge .....				66 34 ✓			
Thickness of Plating abreast Deck openings/ in way of Wells .....				30 ✓			
Thickness of Plating abreast Deck openings/ in way of Bridge .....				30 ✓			
Thickness of Plating within line of openings...				30 ✓			
If Sheathed, material and thickness .....				N.P. ✓			
<b>Third Deck.</b>							
Stringer Plate, breadth and thickness.....				/			
If Plated, state thickness.....				/			
<b>Fourth Deck.</b>							
Stringer Plate, breadth and thickness.....				/			
If Plated, state thickness .....				/			
<b>Poop Deck.</b>							
Stringer Plate, breadth and thickness .....				/			
Plating, Sheathing, material and thickness ...				/			
<b>Bridge Deck.</b>							
Stringer Plate, breadth and thickness.....				30 ✓			
Plating, Sheathing, material and thickness ...				28 2 1/2" A.P. ✓			
<b>Forecastle Deck.</b>							
Stringer Plate, breadth and thickness.....				30 ✓			
Plating, Sheathing, material and thickness ...				30 ✓			

SCANTLINGS.					RIVETING.							
STRAKES.	AS IN VESSEL.				ANY DEPARTURE FROM APPROVED PLANS TO BE NOTED.	EDGES.		BUTTS.				
	AMIDSHIPS.		FORWARD.	AFT.		State if jogged?	NO.	RIVETS.	No. OF ROWS OF RIVETS.	RIVETS.		SPACED OR LAPPED.
	Breadth. Inches.	Thickness. Inches.	Thickness. Inches.	Thickness. Inches.						Diam. Inches.	Spacing or, to cr. Inches.	
Flat Plate KEEL .....	46 1/2	.62	.57	.57		DOUBLE	7/8	3 1/2	THREE	7/8	3/8	LAPPED
" DBLG. (if any)	NONE.											
BOTTOM PLATING, No. 1 of Strakes .....	75	.50	.54	.42		DOUBLE	3/4	3	THREE	3/4	2 5/8	LAPPED
BIDGE PLATING, No. of Strakes .....	7 1/2	.50	.42	.42		DOUBLE	3/4	3	THREE	3/4	2 5/8	LAPPED
SIDE PLATING, No. of Strakes .....	75	.49	.49	.42		DOUBLE	3/4	3	THREE	3/4	2 5/8	LAPPED
UPPER DECK, Sheer- strake in Wells .....	72	.57	.42	.42		DOUBLE	7/8	3 1/2	THREE	7/8	3/8	LAPPED
UPPER DECK, Sheer- strake in Bridge .....	72	.47	-	-		DOUBLE	3/4	3	THREE	3/4	2 5/8	LAPPED
STRAKE BELOW Sheer- strake in Wells .....	75	.47	.42	.42		DOUBLE	3/4	3	THREE	3/4	2 5/8	LAPPED
STRAKE BELOW Sheer- strake in Bridge ...	75	.47	-	-		DOUBLE	3/4	3	THREE	3/4	2 5/8	LAPPED
POOP SIDE PLATING .....												
BRIDGE SIDE PLATING ONE.		.46				SINGLE	3/4	3	THREE	3/4	2 5/8	LAPPED
FOREC'TLE SIDE PLATING			.136			SINGLE	3/4	3	ONE	3/4	2 5/8	LAPPED

Total No. of W.T. BULKHEADS in Vessel—		6 ✓
Extending to Upper Deck (Sec. 3 c)		1 ✓
Deck next below		5 ✓
As per Rule		5 ✓

		Plating Thickness.	STIFFENERS.			
			VERTICAL.		HORIZONTAL.	
			Scantlings.	Spacing.	Scantlings.	Spacing.
MIDSHIP BULK'H'D, Upper tween decks						
"	" Second "					
"	" Third "					
"	" Holds ..... 40 1/2 x 26	✓ 6 x 3 x .441	30"	WELDED TO 20	BULK HEAD.	✓
COLLISION						
	(in Hold) .... 42 1/2 x 30	✓ 7 x 3 1/2 x .481	24"	DITTO.	✓	
AFTER PEAK						
	" ..... 62 1/2 x 30	✓ 6 x 3 x .381	24"	DITTO.	✓	
		1/2 3" x 30 FLAT	24"			

STEEL.	Manufacturer's Name or Trade Mark of the Steel used in the construction of the Vessel—	SKINNINGROVE IRON CO. LTD, CARGO FLEET IRON CO. LTD, CONSETT IRON CO. LTD, DORMAN LONG & CO. LTD
	Has the Steel been tested as required by the Rules? YES.	

	Casting or Forging.	Scantlings.	Maker's Name.	Any Departure from Approved Plans to be Noted.
KEEL, Bar				
STEM				
STERN FRAME	{ Propeller Post } { Rudder }			OF WELDED CONSTRUCTION AS APPROVED
Speed of Vessel				13 KNOTS
RUDDER—Type				BALANCED
" A x D				99 a 7 1/4" ✓
" Diam. of head				7 1/4" ✓
" Mainpiece at top				9 1/2" ✓
" " heel				13 1/2" IN 100 ✓
" how constructed				OF WELDED CONSTRUCTION AS APPROVED.
" 1. or 2. or single plate				DOUBLE PLATE - 45
" coupling, vertical or horizontal				HORIZONTAL - 6 @ 2 7/8" 21/64
Process of manufacture				
APR 26 1917 BIRMINGHAM STEEL CO. COLVILLE, LA.				
BASIC OPEN HEARTH PROCESS.				

EQUIPMENT No. 21998 ✓										LETTER 2 ✓		ANCHORS. 3 BOWERS 1 STREAM.	
Number of Certificate.	Anchor.	WEIGHT, EX. STOCK		WEIGHT OF STOCK		TEST, PER CERTIFICATE		WEIGHT REQUIRED BY TABLE 33.		Description of Anchor.	Makers.	Where and when tested and Superintendent.	
		Cwts.	qrs.	Cwts.	qrs.	Tons.	cwts.	qrs.	lbs.				
38986	1st Bower ...	42	1	7	-	37	8	0	14	42 ✓	STOCKLESS.	BYERS & CO.	SUNDERLAND 11-8-39 N.Y.N.
38989	2nd " ...	42	0	7	-	37	8	1	14	42 ✓	Do.	Do.	Do. 2-2-39 N.Y.N.
38907	3rd " ...	35	2	0	-	32	15	-	-	35 ✓	Do.	Do.	Do. 4-7-39 N.Y.N.
	Collective weight.	119	3	14	-					119 1/2 ✓			
52502	Stream .....	11	0	12	2	3	12	13	-	11 ✓	IRON STOCK.		CADLEY NORTH 18-7-39 LEP.

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.	Status.	Break- ing.	Supplied.	Per Rule.	Length.	Diam.					Fathoms.	Chr.	Fathoms.	Chr.	Fathoms.	Chr.
20376	241 1/16	1 1/16	63 1/4	88 1/2	427 0-13	425 1/4	240	1 1/16	STEEL LINK.	H. L. OVERS.	SUNDERLAND, 19-3-94 N.Y.N.	LOWLINE...	100	4	33.2	100	4	
												HAWSERS & WARPS	2890	2 1/2	13.3	2890	2 1/2	
												"	2890	2 1/4	10.8	2890	2 1/4	
Iron Steam Cable Steel Wire	75	4 1/4		36.4			75	4 1/4	STEEL WIRE			"	-					

Steering Chains (Size and Test) NONE ✓ Windlass STEAM - TYNE METAL CO. 9" x 11" cyl. Boats 2 @ 24' x 7.75' x 3.15' - 35 PERS.

Cargo Hatchways.—(Upper Deck) STEEL CORNING ✓ Thickness of Hatches 3" WOOD THROUGHOUT ✓

Number of Shifting Beams  
and/or Fore and Afters

(b) whether the vessel, not being an oil tanker, is fitted for carrying oil as cargo No. The positions in which oil is carried as fuel or cargo should

GENERAL CONFORMITY WITH THE RULES AND REGULATIONS FOR THE CLASS CONTEMPLATED.

THE FORE AND AFTER PEAK TANKS, & ALL DOUBLE BOTTOM TANKS INCLUDING DRY TANK, HAVE BEEN TESTED UNDER

THE WELTER ON, AND THE W.T. BULAHENDS, TUNNEL AND IN A ROOM WITH DOOR TO

.....

11 5/7

Certificate to be sent to MIDDLESBROUGH Date of issue 17/5/40

+ roots

Hand pool of E.S.D.



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

THE APPROVED PLANS ARE ENCLOSED AS PER ATTACHED LIST. THESE PLANS SHOULD BE RETURNED FOR DEALING WITH THE SISTER VESSELS NOW BUILDING.  
"AS BUILT" PLANS OF MIDSHIP SECTION AND PROFILE & DECKS ARE ENCLOSED (2 PLANS)  
TWEEN DECK W.T. BULKHEADS HAVE BEEN FITTED ON FRS 49, 77, 85 & 110 AS APPROVED.

PARTICULARS OF ELECTRIC WELDING (if employed) 2ND DECK PLATING AND BEAMS, 2ND DECK HATCHWAYS, ALL HATCH BEAMS, ALL TRANSVERSE W.T. & NON-W.T. BULKHEADS IN HOLDS AND TWEENS, HOLD PILLARS, MACHINERY SEATINGS, VENTILATOR CORMINGS AND MINOR ITEMS. ELECTRODE "FLEETWELD N°7"

SPECIAL NOTATIONS:—Either as part of the vessel's class or for record in the Register Book "WITH FREEBOARD", "COLLISION BND. TO SHELTER DECK, 5 BND. TO 2ND DECK, 5 DIVISIONAL W.T. BND. IN SHELTER TWEEN DECKS." E.S.D. D.F. CRUISER STERN

Particulars of Drop Test of Cast Steel Anchors, viz.:— Weight, Surveyor's Initials, Number of Certificate, Date of Test.	1st Bower	25-5-8 ✓	W.V.N.	38986	11-8-39
	2nd "	25-0-20 ✓	W.V.N.	38959	20-7-39
	3rd "	21-1-19 ✓	W.V.N.	38907	4-7-39.

PARTICULARS FOR RECORD in the REGISTER BOOK.—Length of Poop ✓ ft., R.Q.D. ✓ ft., Bridge 68.5 ft., Forecastle 25.8 ft.  
(in feet and tenths). When the Poop or Forecastle are joined to the B.D., this should be distinctly stated ✓  
Official No. 167419 Signal Letters G.C.V.C. Extreme Breadth over Belting ✓ Over-all Length 315'  
No. and Material of Decks 1 DECK AND SHELTER DECK OF STEEL  
Parts of Bottom of Vessel coated with cement or approved composition ALL DOUBLE BOTTOM TANKS CEMENT WASHED - DRY TANK BITUMINOUS SOLUTION.  
Particulars of composition (if fitted) and of approval ✓

PARTICULARS OF WATER BALLAST:—(Comprising all tanks which may be used for Water Ballast. (Circ. 1284) Wells are <u>not</u> to be included in the lengths of the tanks, but Cofferdams and Dry Tanks (if tested) are to be included.)					
Where Fitted.		Length.	Water Capacity.	Where Fitted.	
	Feet.	Tons.		Feet.	Tons.
Double bottom, aft,	70.7	109	Fore peak tank,	✓	31 ✓
Double bottom, under Engines and Boilers,	43.0	72	After peak tank,	✓	48 ✓
Double bottom, if under Engines only,	✓	✓	Deep tank, aft,	✓	✓
Double bottom, if under Boilers only,	✓	✓	Deep tank, forward,	✓	✓
Double bottom, forward,	134.8	313	Other tanks, if fitted,	✓	✓
Total length (if continuous) and Capacity	247.5	494 ✓	(If necessary, furnish further information by sketch.)		
Total length = 247.3 3/5'					

Order for Special Survey No. 1526  
Date 24 6 39

Dates of Surveys held while building  
1939 June 26, 29, July 4, 10, 12, 14, 18, 20, 28, 31, August 1, 4, 25, 29, 30, Sept. 1, 4, 14, 18, 19, 20, 22, 26, 28, 29, Oct. 1, 9, 10, 11, 12, 13, 14, 16, 17, 18, 19, 20, 25, 26, 27, 30, 31, Nov. 1, 2, 3, 5, 6, 8, 10, 14, 16, 21, 22, 24, 26, 28, 30, Dec. 1, 4, 6, 8, 9, 11, 19, 21, 23.  
1940 Jan. 10, 17, 25, Feb. 6, 7, 13, 15, 16, 21, 27, 28, March 1, 4, 8, 16, 27, April 1, 2, 3, 5, 6, 8, 19.

Total No. visits 93

For P.S. & F. Dec. 1939 repl. No. 16850 on Lancashire Prince.