

## STEEL STEAMER or MOTORSHIP.

Received at London Office 3 JUL 1930

State if Report has been sent on the Freeboard of the Vessel ☒State if Report is sent on the Machinery of the Vessel ☒

Date of completion of report 1/7/30

Port of Oslo

No. 3469

Survey held at Langesund

Date First Survey 19/4/29

Last Survey 12/6/1930

On the (State if Machinery fitted Aft and if Single, Twin or Triple Screw) single screw steel steamer "TORRIDAL".

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

State Type of Erections Prop, bridge, f'de.

TONNAGE under Tonnage Deck... 1208.23

CLASS 100 A1

State if with freeboard as condition of Class ☒

Built at Langesund

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

Length from fore part of stem to after part of stern post on summer L.W.L. See Sec. 3 (1a) L 75.7

F'W'W' meter

Launched 30/1/1930

Yard No. 9

Total

Breadth (greatest moulded) B 11.58

Builders Langesund Mek. Verksted

Gross Tonnage 1380.58

Depth at middle of length from top of keel to top of beam at side of uppermost continuous deck. See Sec. 3 (1c) D 5.26

Owners A/S Ingvold Björnebo's Rederi A/S

Register Tonnage 780.19

1st Longitudinal Number (L x D) = 398

Managers Ingvold Björnebo

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

REGISTERED DIMENSIONS.

FEET.

Framing Depth "d," at middle of length. See Sec. 3 (1d) 5.26

Residence Kristiansand

Length 249.1

Proportions—Depth to Length—Uppermost continuous deck to top of keel 14.4

Port of Registry Kristiansand

Breadth 38.1

Do. Long Bridge to top of keel 10.1

If surveyed while building, afloat, and in dry dock

Depth 15.2

Draught Moulded 15'-4 1/2"

Yes

## FRAMES, DOUBLE BOTTOM AND BEAMS.

	mm INCHES IN SHIP.	Any Departure from Approved Plans to be Noted.		INCHES IN SHIP.	Any Departure from Approved Plans to be Noted.
<b>FRAMES, Spacing amidships</b>	680 mm		<b>Bracket Floors, Frame</b>	angle	170 75 10
" " from 1/2 length to Collision bulkhead	585 mm		" " Reversed Frame	angle	160 75 10
" " in peaks	585 mm		" " Vertical Struts		150 75 10
<b>SIDE FRAMING.</b>			<b>Centre Girder, depth and thickness amidships</b>		840 10.5
<b>Frame Amidships, Angle</b>	165 75 8.5		" " top Angles		75 75 10
" " Extends up to	upper decks		" " bottom Angles		90 90 10.5
<b>Reversed Frame Amidships, Angle</b>	- - -		<b>Side Girders, No. each side and thickness</b>		1 8
" " Extends up to	- - -		<b>Margin Plate depth (excl. of flange) and thickness</b>		620 10
<b>Depth of Framing Girder</b>			" " Vertical Angle to Tank side Bracket abaft 1/2 len. from stem		75 75 8
<b>Frames in Uppermost Continuous 'tween Decks, Angle, [ or ]</b>	- - -		" " Vertical Angle to Tank side Bracket forward 1/2 len. from stem		- - -
" " <b>Second 'tween Decks, Angle, [ or ]</b>	- - -		" " Gussets, spacing and scantling abaft 1/2 len. from stem		- - -
" " <b>Third " " " "</b>	- - -		" " Gussets, spacing and scantling forward 1/2 len. from stem		- - -
<b>Framing in Peaks, Angle</b>	150 75 10		<b>Tank Side Brackets, height above base line at toe of Frame and thickness</b>		1100 8.5
<b>Diameter and Spacing of Rivets through Frame and Shell Plating amidships</b>	3/4" 4 3/4"-5"		<b>INNER BOTTOM PLATING.</b>		
<b>State if Frame Joggled</b>	No		<b>Breadth and thickness of Middle Line Strake</b>		1065 9.5 8
<b>PANTING ARRANGEMENTS (Sec. 7), state system and particulars</b>	Deep frame 2 stringers		<b>Thickness of remainder in Holds</b>		8.5 8
<b>STRENGTHENING OF BOTTOM FORWARD. State Particulars</b>	as per upper plans & in acc. with Rules		<b>Are Rule requirements complied with regarding increases of scantlings in way of double bottom in E. &amp; B. space and framing in Bunkers and Boiler Room?</b>		Yes
<b>SINGLE BOTTOM. in way of Boiler Room</b>			<b>BEAMS.</b>		
<b>Floors, Depth and thickness at mid-line in Holds</b>	570 12.5		<b>Uppermost Continuous Deck, amidships in Wells, Angle, [ or ]</b>		190 75 10
<b>Height of Brackets at side above base line at toe of frame</b>	1100		" " in way of Bridge, Angle, [ or ]		180 75 10
<b>Middle Line Keelson, on Floors, Angles, [ or ]</b>	140 90 13		<b>Spacing</b>		every ft.
" " Through Plate or Intercostal Plate	13		<b>Second Deck, amidships, Angle, [ or ]</b>		- - -
" " Foundation Plate on Floors	300 13		<b>Spacing</b>		- - -
" " Flat Plate Keel Angles	90 90 10.5		<b>Third Deck, amidships, Angle, [ or ]</b>		- - -
<b>Side Keelsons, No. each side</b>	1		<b>Spacing</b>		- - -
" " thickness of Intercostal Plate	11.5		<b>Fourth Deck, amidships, Angle, [ or ]</b>		- - -
" " Angles	140 90 11.5		<b>Spacing</b>		- - -
<b>DOUBLE BOTTOM.</b>			<b>Poop Deck, Angle, [ or ]</b>		140 75 8
<b>Solid Floors, thickness and spacing</b>	8.5 every 3rd		<b>Spacing</b>		Every 2nd
" " Are Frame and Reversed Frame joggled?	No		<b>Bridge Deck, Angle, [ or ]</b>		140 75 8.5
<b>Bracket Floors, breadth and thickness at middle line</b>	700 8.5		<b>Spacing</b>		Every frame
" " breadth and thickness at margin plate	700 8.5		<b>Forecastle Deck, Angle, [ or ]</b>		180 75 8.5
			<b>Spacing</b>		every 2nd ft.



## PILLARS AND DECKS.

	mm. 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> <i>wide spaced. II</i>	<i>200</i>	<i>85</i>	<i>85</i>				
		<i>13/14</i>					
" in 'tween Decks, Size and Spacing.....	<i>250</i>	<i>90</i>	<i>90</i>	<i>13.5</i>			
" " " " " "	<i>200</i>	<i>85</i>	<i>85</i>	<i>12.5</i>			
" in Holds " " " "	<i>180</i>	<i>80</i>	<i>80</i>	<i>12.5</i>			
" " " " " "	<i>200</i>	<i>85</i>	<i>85</i>	<i>12.5</i>			
" " " " " "	<i>150</i>	<i>85</i>	<i>85</i>	<i>9.5</i>			
<b>Centre Line Bulkhead.</b>							
Stiffeners and Spacing.....							
Plating, thickness of .....							
<b>STRINGERS AND DECKS.</b>							
<b>Uppermost Continuous Deck.</b>							
Stringer Plate, breadth and thickness in Wells	<i>1145</i>	<i>14.5</i>					
" " " " " in way of Bridge			<i>9</i>				
" Angle in Wells .....	<i>130</i>	<i>130</i>	<i>14.5</i>				
Thickness of Plating abreast Deck openings in way of Wells .....			<i>9.5</i>				
Thickness of Plating abreast Deck openings in way of Bridge .....			<i>7.5</i>				
Thickness of Plating within line of openings...			<i>7.5</i>				
If Sheathed, material and thickness .....							
<b>Second Deck.</b>							
Stringer Plate, breadth and thickness in Wells...							
Stringer Plate, breadth and thickness in way of Bridge .....							
Thickness of Plating within line of openings...							
If Sheathed, material and thickness .....							
<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 .....				<i>8.5</i>			
Plating, Sheathing, material and thickness ...				<i>8.5</i>			
<b>Bridge Deck.</b>							
Stringer Plate, breadth and thickness.....	<i>1450</i>	<i>9</i>					
Plating, Sheathing, material and thickness ...				<i>8</i>			
<b>Forecastle Deck.</b>							
Stringer Plate, breadth and thickness .....				<i>8.5</i>			
Plating, Sheathing, material and thickness ...				<i>8.5</i>			

## SHELL PLATING.

SCANTLINGS.					RIVETING.							
STRAKES.	AS IN VESSEL.				ANY DEPARTURE FROM APPROVED PLANS TO BE NOTED.	EDGES. <i>No</i> <small>State if jagged?</small>			BUTTS.			
	AMIDSHIPS.		FORWARD.	AFT.		STATE OF DOUBLS.	RIVETS.		No. OF ROWS OF RIVETS.	RIVETS.		STRAPPED OR LAPPED.
	Breadth.	Thickness.	Thickness.	Thickness.			Diam.	Spacing or to cr.		Diam.	Spacing or to cr.	
	<small>Inches. <i>mm.</i></small>	<small>Inches. <i>mm.</i></small>	<small>Inches. <i>mm.</i></small>	<small>Inches. <i>mm.</i></small>			<small>Inches. <i>mm.</i></small>	<small>Inches. <i>mm.</i></small>		<small>Inches. <i>mm.</i></small>	<small>Inches. <i>mm.</i></small>	
FLAT PLATE KEEL .....	<i>1065</i>	<i>13</i>	<i>12</i>	<i>12</i>		<i>Double</i>	<i>22</i>	<i>90</i>	<i>3R</i>	<i>19</i>	<i>3 1/2</i> <i>65 mm</i>	<i>lapped</i>
„ DECK (if any)												
BOTTOM PLATING, No. of Strakes .....	<i>3</i>	<i>11.5</i>	<i>11.5</i>	<i>9.5</i>		<i>- - -</i>	<i>19</i>	<i>75</i>	<i>3R</i>	<i>19</i>	<i>65</i>	<i>"</i>
BILGE PLATING, No. of Strakes .....	<i>1</i>	<i>11.5</i>	<i>9.5</i>	<i>9.5</i>		<i>- - -</i>	<i>19</i>	<i>75</i>	<i>3R</i>	<i>19</i>	<i>65</i>	<i>"</i>
SIDE PLATING, No. of Strakes .....	<i>1</i>	<i>11.5</i>	<i>9.5</i>	<i>9.5</i>	<i>upper</i>	<i>single</i>	<i>22</i>	<i>90</i>	<i>2R</i>	<i>19</i>	<i>65</i>	<i>"</i>
UPPER DECK, Sheer- strake in Wells.....	<i>1170</i>	<i>16.5</i>	<i>9.5</i>	<i>9.5</i>		<i>double</i> <i>single</i>	<i>22</i>	<i>90</i>	<i>3R</i>	<i>22</i>	<i>80</i>	<i>"</i>
UPPER DECK, Sheer- strake in Bridge ...		<i>11.5</i>										
STRAKE BELOW Sheer- strake in Wells.....	<i>1700</i>	<i>14</i>	<i>9.5</i>	<i>9.5</i>		<i>- - -</i>			<i>3R</i>	<i>22</i>	<i>80</i>	<i>"</i>
STRAKE BELOW Sheer- strake in Bridge ...	<i>ab. 1700</i>	<i>11.5</i>	<i>9.5</i>	<i>9.5</i>		<i>single</i>	<i>19</i>	<i>75</i>	<i>3R</i>	<i>19</i>	<i>65</i>	<i>"</i>
POOP SIDE PLATING .....		<i>7.5</i>				<i>single</i>	<i>19</i>	<i>75</i>	<i>1R</i>	<i>19</i>	<i>65</i>	<i>"</i>
BRIDGE SIDE PLATING ...		<i>10</i>				<i>single</i>	<i>19</i>	<i>75</i>	<i>3R</i>	<i>19</i>	<i>65</i>	<i>"</i>
FORECASTLE SIDE PLATING		<i>8</i>				<i>single</i>	<i>19</i>	<i>75</i>	<i>1R</i>	<i>19</i>	<i>65</i>	<i>"</i>

## WATERTIGHT BULKHEADS.

<b>Total No. of W.T. BULKHEADS in Vessel—</b>	
Extending to Upper Deck (Sec. 3 c).	<i>4</i>
" Deck next below .....	<i>1</i>
As per Rule.....	<i>4</i>

## STIFFENERS.

	Plating Thickness.	VERTICAL.		HORIZONTAL.	
		Scantlings.	Spacing.	Scantlings.	Spacing.
<b>MIDSHIP BULKHEAD, Upper tween decks</b>					
" " Second "					
" " Third "					
" " Holds .....	<i>4</i>	<i>170x75</i>	<i>8.5</i>	<i>760</i>	
<b>COLLISION</b> " (in Hold) .....	<i>8</i>	<i>230x75</i>	<i>10.5</i>	<i>610</i>	
<b>AFTER PEAK</b> " " .....	<i>7.5</i>	<i>190x75</i>	<i>10.5</i>	<i>610</i>	

## FORGINGS and CASTINGS.

	Casting or Forging.	Scantlings.	Maker's Name.	Any departure from approved plans to be noted.
<b>KEEL, Bar .....</b>				
<b>STEM .....</b>	<i>Forging</i>	<i>180x46 to Knyberg</i>	<i>140x46</i>	<i>Kaasenfabrik</i>
<b>STERN FRAME</b> { Propeller Post .....	<i>Casting</i>	<i>as per Union de</i>		
{ Rudder " .....		<i>upper plan</i>	<i>acieries</i>	<i>marcille</i>
<b>RUDDER—A x B .....</b>		<i>- - -</i>		
<b>Speed of Vessel .....</b>		<i>10 knots</i>		
<b>RUDDER</b> mainpiece at head ...		<i>cast steel</i>	<i>special section</i>	<i>- - -</i>
" " heel ...		<i>- - -</i>	<i>see app. plan</i>	
" how constructed .....		<i>arms cast with main piece</i>		
" double or single plate		<i>single</i>	<i>15.5 mm.</i>	
" coupling, vertical or horizontal.....		<i>Horizontal</i>		

## STEEL.

Manufacturer's Name or Trade Mark of the Steel used in the construction of the Vessel (state process of manufacture) *Open Hearth Process*  
*Gutehoffnungshütte (Oberhausen) Cleveland Steel Works, Borman, Long & Co.*

Has the Steel been tested as required by the Rules? *Yes*



EQUIPMENT No. <u>348 (metric)</u>												LETTER <u>P.</u>		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.			
33002	1st Bower ...	31	1	0				29	11	1	0	30.425	Byers' Impr. Stock	W. L. Byers & Co.	Sunderland, 10/4/30
33004	2nd " ...	31	2	0				29	15	0	0	30.500			
758	3rd " ...	25	3	27				25	12	2	0	25.925			
	Collective weight.	88	2	27											
45223	Stream .....	7	3	4	2	0	10	9	18	0	14	87.000	Union Stockless	Dortmund Union	Brissklopf, 22/9/30, Haug
													rd. of W. I. anchor.		Grady Hall 19/3/30 Paul

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.	Stations.	Break- ing.	Supplied.	Per Rule.						Length.	Diam.		Fathoms.	Ins.	Fathoms.	Cir.	Fathoms.	Cir.
44229	240	1 5/8"	4 1/2	66 1/2	319	1.21	210	1 5/8"			adallyketh 19/3/30 Sarel	TOWLINE...	90	3 1/4	22	90	3 1/4			
Iron Steam Chain or Steel Wire	75	3 3/4	X	25	29	See	75	3 3/4	link	✓		HAWSERS & WARPS	2x90	2 1/4	9 1/2	90	2 1/4			
												"	2x90	1 3/4	5 1/2	90	1 3/4			

*Builder's Signature*

GENERAL DECLARATION This vessel has been constructed in accordance with the approved plans and the Secretary's letters, amending these plans. The workmanship and the material throughout are of the best description. The steel materials used in the construction of the vessel have been manufactured at approved works & tested by the Society's Surveyors in accordance with the Rules. The forgings & castings have been manufactured at approved works, & tested by the Society's Surveyors as per Rules. - The cellular double bottom tanks have been tested by water pressure to upper deck, fore & after peak tanks to a height of 8 feet above crown of tank. The weather decks, tunnel, E.R. & stokehold bulkheads have been tested by water hose. The inner surface of the double bottom plating is coated with cement.

The windlass and steering gear have been tested & found to work satisfactorily.

The amount of Entry Fee .....	Rs. : 91.00	} Fees applied for, 13/6/1930
Special Survey Fee.....	Rs. 2513.42	
Travelling Expenses, if any	Rs. : 675.00	} Received by me, 24/6/1930
2nd Surv.	50.00	

I am of opinion the Vessel should be Classed ☒ 100 A1

State whether the Vessel has been built under Special Survey *Yes*

Certificate to be sent to *this office* Date of issue *15/7/30*

Signature

Per Goin-Roli. Guide  
Surveyor to Lloyd's Register of Shipping.

## Committee's Minute

TUE, 15 JUL 1930

*Character assigned*

+ 1000s  
large battens not fitted

Write all  
(Horn)  
fee

Lloyd's arch, + amb 6.30 of 22.

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Lloyd's Register  
Foundation

W1183-0012 2/2



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.)

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

1st Bower 18.0.9, L.R. 653 4/4/32 (33004)  
2nd „ 17.2.25 L.R. 652 4/4/30 (33002)  
3rd „ 17.1.4 M.B. 2940 24/9/26 (758)

PARTICULARS FOR RECORD in the REGISTER BOOK.—Length of Poop 21'9" ft., R.Q.D. ft., Bridge 56 ft., Forecastle 26 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) 1 st. Steel.

Official No. : Signal Letters L. H. W. G. 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, <i>arv E00.2</i>	82.4	144	Fore peak tank,		50
Double bottom, under Engines and Boilers, <i>100.2</i>	17.8	42	After peak tank,		80
Double bottom, if under Engines only,			Deep tank, aft,		
Double bottom, if under Boilers only,	93.5	154	Deep tank, forward,		
Double bottom, forward,			Other tanks, if fitted,		
	Total capacity of double bottom	340	(If necessary, furnish further information by sketch.)		

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

Order for Special Survey No.

Date

Dates of Surveys held while building

1929: 19/4, 28/6, 20/7, 10/8, 5/9-9/9, 18/9, 7/10, 13/11, 14/12, 19/12  
1930: 9/1, 10/1, 24/1, 30/1, 4/2, 19/2, 6/3, 13/3, 24/3, 3/4, 28/4, 15/5, 22/5, 3/6, 12/6

Total No. of Visits

26