

STEEL STEAMER or MOTORSHIP.

Received at London Office 18 7 1929

State if Report has been sent on the Freeboard of the Vessel yesState if Report is sent on the Machinery of the Vessel yesDate of completion of report 16th September 1929 Port of Copenhagen No. 8079
Survey held at Copenhagen Date First Survey 12th October 1928 Last Survey 6th September 1929On the (State if Machinery fitted Afloat) not fitted afloat Steamer Ship "PACIFIC RANGER"State Type (Full tonnage, Complete Superstructure with or without Tonnage Openings) Complete Superstructure with Tonnage Openings State Type of Erections ForecastleTONNAGE under Tonnage Deck... 6114.20 CLASS 100A1 State if with freeboard as condition of Class yes Built at Copenhagen

(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) 435.0Launched 12th June 1929 Yard No. 561Breadth (greatest moulded) 60.0Builders Abt. 13 Bismarckstr. OdenseDepth, at middle of length from top of keel to top of beam at side of uppermost continuous deck. See Sec. 3 (1c) 32.04Owners Furness Withy & Co. Ltd.1st Longitudinal Number (L x D) 18287Managers ✓
(Where necessary to be entered in Reg. Book.)2nd Numeral L x (B + D) 44387Residence London

REGISTERED DIMENSIONS.

FEET.

Length 436.40Framing Depth "d," at middle of length. See Sec. 3 (1d) 17.71Proportions—Depth to Length—Uppermost continuous deck to top of keel 10.35Port of Registry LondonBreadth 60.35Do. Long Bridge to top of keel ✓If surveyed while building, afloat, or in dry dock yesDepth 29.25Draught Moulded 27.44

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.
AMES, Spacing amidships	34	✓	Bracket Floors, Frame	—	—
" " from $\frac{3}{8}$ length to Collision bulkhead	27	✓	" " Reversed Frame	—	—
" " in peaks	24	✓	" " Vertical Struts	—	—
DE FRAMING.			Centre Girder, depth and thickness amidships	48	.62 <u>48 x .62</u>
Frame Amidships, Angle, E or F	12 3½ .52	✓ <u>12 x 3½ x .50</u>	" " top Angles <u>double</u>	3½	3½ .56
" " Extends up to	2nd deck	✓	" " bottom Angles <u>double</u>	5	5 .65
Reversed Frame Amidships, Angle	9 4 .50	✓	Side Girders, No. each side and thickness	2	<u>40 x .44</u>
" " Extends up to	3rd deck	✓	Margin Plate depth (excl. of flange) and thickness	41	.56
Depth of Framing Girder, forward	16½	✓	" " Vertical Angle to Tank side Bracket abaft $\frac{1}{2}$ len. from stem	6½	6½ .55
Frames in Uppermost Continuous 'tween Decks, Angle, E or F	9 3½ .44	✓ <u>8 x 3½ x .36</u>	" " Vertical Angle to Tank side Bracket forward $\frac{1}{2}$ len. from stem	6½	6½ .55
" " Second 'tween Decks, Angle, E or F	<u>Scampered to plating below</u>	✓	" " Gussets, spacing and scantling abaft $\frac{1}{2}$ len. from stem	36	<u>continuous gusset plates less for rafter</u>
" " Third " " " "	✓	✓	" " Gussets, spacing and scantling forward $\frac{1}{2}$ len. from stem	36	<u>✓</u>
Framing in Peaks, Angle or F	9 3½ .46	✓ <u>9 x 3½ x .44</u>	Tank Side Brackets, height above base line at toe of Frame and thickness	7	<u>4</u>
Diameter and Spacing of Rivets through Frame and Shell Plating amidships	7/8 6 diam. apart	✓	INNER BOTTOM PLATING.		
State if Frame Joggled	<u>yes</u>	✓	Breadth and thickness of Middle Line Strake	72	.55 <u>56 x .55</u>
STRENGTHENING ARRANGEMENTS (Sec. 7), state system and particulars	<u>2 Intercostal Stringers plates 100 lbs. 9 x 11 x .58 Angle. Floors every frame. Rivets in plates spaced 5½ diam. apart. 3 Strakes of plating (105) lower midships thickness to Coll. Bulk.</u>	✓	Thickness of remainder in Holds	—	<u>.48</u>
LENGTHENING OF BOTTOM FORWARD. State Particulars	<u>frames spaced 27" 8 x 5 x .48 single bottom frames</u>	✓	Are Rule requirements complied with regarding increases of scantlings in way of double bottom in <u>engine</u> space and framing in <u>engine</u> Room? <u>yes</u>	—	<u>yes</u>
Floors, Depth and thickness at mid-line in Holds	—	—	BEAMS.		
Height of Brackets at side above base line at toe of frame	—	—	Uppermost Continuous Deck, amidships	9 3½ .54	✓
Middle Line Keelson, on Floors, Angles, E or F	—	—	" " in way of Bridge, Angle, E or F	—	—
" " Through Plate or Intercostal Plate	—	—	Spacing	34	✓
" " Foundation Plate on Floors	—	—	Second Deck, amidships, Angle, E or F	11 3½ .52	✓
" " Flat Plate Keel Angles	—	—	Spacing	34	✓
Side Keelsons, No. each side	—	—	Third Deck, amidships, Angle, E or F	10 3½ .44	✓ <u>9½ x 3½ x .50</u>
" " thickness of Intercostal Plate	—	—	Spacing	34	✓
" " Angles	—	—	Fourth Deck, amidships, Angle, E or F	—	—
DOUBLE BOTTOM.			Spacing	—	—
Solid Floors, thickness and spacing	446 34 68	✓	Poop Deck, Angle, E or F	—	—
" " Are Frame and Reversed Frame joggled?	<u>yes</u>	✓	Spacing	—	—
Bracket Floors, breadth and thickness at middle line	—	—	Bridge Deck, Angle, E or F	—	—
" " breadth and thickness at margin plate	—	—	Spacing	—	—
			Forecastle Deck, Angle, E or F	78 3 .42	✓ <u>8 x 3 x .40</u>
			Spacing	7 3 .46	✓ <u>27 x 24</u>

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.....	2				Stringer Plate, breadth and thickness in way of Bridge	—	—	—	
{ " ^{upper} in tween Decks, Size and Spacing <i>Max 7" dim</i>	7	dim	✓		Thickness of Plating abreast Deck openings) in way of Wells	—	—	38	✓
{ <i>Girders 18" x 12 x 3 1/2 x .68</i>	11	"	.50	✓	Thickness of Plating abreast Deck openings) in way of Bridge	—	—	—	
{ " ^{lower} " " " <i>Max 11" " .50</i>	19	"	.68	✓	Thickness of Plating within line of openings...	—	34	✓	✓
{ " in Holds <i>Max 19" " .68</i>					If Sheathed, material and thickness	—	—	—	
" " " " "					Third Deck. in way of Deep Tank	72	.38	✓	34
Centre Line Bulkhead.					Stringer Plate, breadth and thickness.....	—	—	—	
Stiffeners and Spacing.....	8	3	.38	✓	If Plated, state thickness.....	—	34	✓	
Plating, thickness of	34	"	.27	✓	Fourth Deck.				
STRINGERS AND DECKS.					Stringer Plate, breadth and thickness.....	—	—	—	
Uppermost Continuous Deck.					If Plated, state thickness	—	—	—	
Stringer Plate, breadth and thickness in Wells	72		.64	✓	Poop Deck.				
" " " " in way of Bridge	—	—	—		Stringer Plate, breadth and thickness	—	—	—	
" Angle in Wells	6	6	.64	✓	Plating, Sheathing, material and thickness ...	—	—	—	
Thickness of Plating abreast Deck openings) in way of Wells52	✓	Bridge Deck.				
Thickness of Plating abreast Deck openings) in way of Bridge	—	—	—		Stringer Plate, breadth and thickness.....	—	—	—	
Thickness of Plating within line of openings...			.22	✓	Plating, Sheathing, material and thickness ...	—	—	—	
If Sheathed, material and thickness	5	3	.38	✓	Forecastle Deck.				
Second Deck.					Stringer Plate, breadth and thickness.....	35	.36	✓	
Stringer Plate, breadth and thickness in Wells...	72		.64	✓	Plating, Sheathing, material and thickness ...	—	.36	✓	

SHELL PLATING.

SCANTLINGS.					RIVETING.							
STRAKES.	AS IN VESSEL.				ANY DEPARTURE FROM APPROVED PLANS TO BE NOTED.	EDGES. State if jogged?			BUTTS.			
	AMIDSHIPS.		FORWARD.	AFT.		SINGLE OR DOUBLE.	RIVETS.		No. OF ROWS OF RIVETS.	RIVETS.		STRAPPED OR LAPPED.
	Breadth.	Thickness.	Thickness.	Thickness.			Diam.	Spacing cr. to cr.		Diam.	Spacing cr. to cr.	
	Inches.	Inches.	Inches.	Inches.		Inches.	Inches.		Inches.	Inches.		
FLAT PLATE KEEL	54½	.86	.76	.76		Double	1	4"	Quadruple	1½	4"	Overlap
„ DBLG. (if any)	—	—	—	—		—	—	—	—	—	—	—
BOTTOM PLATING, No. of Strakes ...	80	.68	3-.68 1-.52	3-.76 1-.68		Double	7/8	3½	Quadruple	7/8	3½	Overlap
BILGE PLATING, No. of Strakes ...	63 67	.68	.52	.52		"	"	"	"	"	"	"
SIDE PLATING, No. of Strakes ...	80	.66	.50	.50		"	"	"	Double	"	3½	"
UPPER DECK, Sheer- strake in Wells.....	—	—	—	—		—	—	—	—	—	—	—
UPPER DECK, Sheer- strake in Bridge...	62	.72	.50	.50		—	—	—	Quadruple	7/8	3½	Overlap
STRAKE BELOW Sheer- strake in Wells.....	70	.70	.50	.50		Double	7/8	3½	"	"	"	"
STRAKE BELOW Sheer- strake in Bridge ...												
POOP SIDE PLATING												
BRIDGE SIDE PLATING ...												
FORE'TLE SIDE PLATING	59	.44				Single	¾	3	Double	¾	2½	Overlap

WATERTIGHT BULKHEADS.

Total No. of W.T. BULKHEADS in Vessel— 8

Extending to Upper Deck (Sec. 3 c) *1 (Call Blue)*

Deck next below **7**

As per Rule.

		Plating Thickness.	STIFFENERS.			
			VERTICAL.		HORIZONTAL.	
			Scantlings. Spacing.		Scantlings. Spacing.	
No 109						
MIDSHIP BULKHEAD	Upper tween decks	—	—	—	—	—
"	Second "	✓ 28	5 × 3 1/2	22		
"	Third "	—	—	—	—	—
"	Holds	✓ 42	✓ 30	11 × 3 1/2	✓ 58	22
COLLISION	(in Hold)	✓ 56	✓ 30	9 × 3 1/2	✓ 21	21
AFTER PEAK	"	✓ 50	✓ 30	15 × 3 1/2	✓ 22	22

FORGINGS and CASTINGS.

	Casting or Forging.	Scantlings.	Maker's Name.	Any departure from approved plans to be noted.
KEEL, Bar	—	—	—	
STEM <i>bar</i>	<i>Forging</i>	<i>10 1/2 x 2 1/2</i>		
STERN FRAME { Propeller Post	<i>Bottom Cast Steel</i>	<i>13"</i>	<i>Prommens</i>	
{ Rudder	<i>Cast Steel</i>	<i>2 1/2 x 1 1/2</i>	<i>Westerlo</i>	
RUDDER—A x D	<i>59"</i>	<i>11 3/4"</i>		
Speed of Vessel	<i>12.5 K</i>			
RUDDER mainpiece at head ..	<i>forged steel</i>	<i>11 3/4" diam</i>	<i>Prommens</i>	
" " heel ..			<i>Westerlo</i>	
" how constructed	<i>cast steel, riveted on mainpiece, partly laminated</i>		<i>Copenhagen</i>	
" double or single plate ..	<i>Single</i>	<i>1 1/2"</i>		
" coupling, vertical or horizontal	<i>vertical</i>			

STEEL.

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

Vereinigte Stahlwerke a. g. ¹/₂ Hoesler, Vöslau
" " " ¹/₂ Stahl & Walzwerke, Haysen, Wittenheim-Ruck
" " " ¹/₂ Vöslauer Eisenwerke, Dörschberg

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

Lloyd's Register
Foundation

EQUIPMENT No. 45173										LETTER C +		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.			
31367	1st Bower ...	77	2	21	-	-	-	57	12	2	0	77-0-0	13 yrs Improved } Stockless } Cash Stockless } Cable Stockless }	W. L. Byers } do } do }	Swedishland 7/8/28 } B. A. S. Pasquet } Low Water 23/1/29 } A. Green }
24394	2nd „ ...	77	0	14	-	-	-	57	8	3	0	77-0-0			
24392	3rd „ ...	66	0	21	-	-	-	51	13	0	14	65-2-0			
	Collective weight:	221	0	0								219-2-0			
44140	Stream	22	0	18	5	3	18	22	9	1	14	22-0-16	Ordinary	-	Creechley 16/1/29

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.		
85313	150 2 7/8	149 8 10 6 1/2	445	3	0	890	1-0 300 2 7/8	St. Dingley 7-2-29	detested	POWLINE	130 5 3/4	89	130 5 3/4		
85331	150 2 7/8	149 8 10 6 1/2	445	1	15			Sam	22-2-29	HAWSERS & WARPS	2-90 2 1/2	12 1/2			
											2-90 3	18	2-100 8 1/2		
											1-90 3 1/2	22	2-100 8 1/2		
											2-100 8 1/2	22			
											2-100 8 1/2				
Stream Chain - Steel Wire	120 5	73				120 5									

Steering Gear, Steam *Electric Hydraulic J. Dastin & Co.* Steering Gear, Hand *Emergency Steering Stand on deck*
Boats *Four 24-6" (Wood)* Steering Chains, Size and Test *St. Dingley* Windlass *Electric, J.B. Mudge*
Ceiling in Holds, thickness and material *2 1/2" wood on 2" battens* Cargo Battens, thickness, material and spacing *6x2" w/ 9" apart*
Cargo Hatchways. (Upper Deck) *Six 2'-11" (height) x 3" (thickness)* Thickness of Hatches *3" wood*
Size of No. 1 Hatchway (Forward) *22-6x18-0* No. 2 *31-2x18-0* No. 3 *31-2x18-0* No. 4 *48-6x18-0* No. 5 *31-2x18-0* No. 6 *31-2x18-0*
Number of Shifting Beams and *For Fore and Afters No 1-4, No 2-5, No 3-5, No 4-5, No 5-5, No 6-5.*

AKTIESELSKABET
BURMEISTER & WAINSKIN- OG SKIBSBYGGERI

Builder's Signature

GENERAL DECLARATION. It should be stated (a) whether the vessel is fitted for the carriage and burning of oil used as fuel *yes* (b) whether the vessel, *not being* *oil tanker*, is fitted for carrying oil as cargo *lined tank*. The positions in which oil is carried as fuel or cargo should be indicated, together with the flash point.

This vessel is fitted for the carriage of oil fuel in the double bottom tanks and in wing tanks at tunnel sides, flash point above 150°F.
The deep tank is fitted for the carriage of Lined Oil or White Ballast.
This vessel has been built in accordance with the approved plans, the Society's Rules, the Secretary's letter and to our satisfaction.
The materials and workmanship employed during the construction of the vessel are of good quality.
All the double bottom, peaks and deep tanks, weather decks, gutters, w.t. bulkheads, tunnels, scuppers and air & sounding pipes water tested according to Rules.
A Deck Keel is fitted forward of machinery space 163 feet in length.
No 2-3-5 & 6 lower bottom deck spaces are insulated for the carriage of perishable cargo, the decks, shell plating and bulkheads in way water tested by a hose.

The amount of Entry Fee *Kr. 182: 00* Fees applied for, *13-9-1929*
Special Survey Fee.... *Kr. 674: 03* Received by me, *19-11-1929*
Freeboard *Kr. 218: 00*
Travelling Expenses, if any *Kr. 12: 35*
Late fee *Kr. 30: 00*
State whether the Vessel has been built under Special Survey *yes*
Signature *J. B. Mudge*
Certificate to be sent to *Copenhagen* Date of issue *24/9/29*
Surveyor's Office *Copenhagen* Surveyor to Lloyd's Register of Shipping.

Committee's Minute *TUE. 24 SEP 1929*
Character assigned *+ 100A1 with freeboard*
carrying Lined oil in Deep Tank
Lloyd's a.c.p. + Linc. 9.29 Oil Engines
Wike
CL. L.B. 100A1
My
© 2020
FRI. 27 SEP 1929
Lloyd's Register Foundation
W 70-00 27(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.)

No sister vessel built or building by Messrs J. Sumner & Wain

Approved plans enclosed:

Whidship Section: Profile & Deck Plan: Girders & Pillars:
Stem post & Rudder: Boss Brackets: Bossed frames:
Painting Arrangement: Deep tank for water Ballast or Linseed Oil:
Deep tanks for Oil fuel & Tunnel Deck: Water Seatings:
Deckhouse & Boat Deck: Arrangement of Scupper from upper lower Dks.

Finished plans enclosed:

Whidship Section
Profile & Deck plan.

Certificates enclosed:

Shaft Brackets
Stem frame
Tiller
Rudder uloinpiece
Rudder Head

The Cargo Doors (please see approved plan dated 28/8/28) have not been fitted, this proposal being cancelled by the Owner:
Hand pump, w.l. door, windlass and steering gear tried and found satisfactory.

Particulars of Drop Test of Cast Steel Anchors, viz.:— Weight, Surveyor's Initials, Number of Certificate, Date of Test.	1st Bower	E-9-4 47-2-9. KH. 5508. 28/8/28.
	2nd "	46-3-14. MB. 8956. 16/11/28.
	3rd "	39-2-26. MB. 5776. 13/9/28.

PARTICULARS FOR RECORD in the REGISTER BOOK.—Length of Poop ☒ ft., R.Q.D. ☒ ft., Bridge ☒ ft., Forecastle 39.6 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 (Stk) & Shelter dk (Stk)

Official No. 161291; Signal Letters

Is bottom of Vessel coated with cement ☒ if not give

particulars of composition None.

PARTICULARS OF WATER BALLAST.—

Where Fitted.	*Length. Feet.	Water Capacity. Tons.	Where Fitted.	*Length. Feet.	Water Capacity. Tons.
Double bottom, aft,	136	346	Fore peak tank,		152
Double bottom, under Engines and Boilers,			After peak tank,		128
Double bottom, if under Engines only,	31	164	Deep tank, aft, wing tanks at sides of tunnels (oil)		325
Double bottom, if under Boilers only,			Deep tank, forward, (Linseed Oil or water)	28	908
Double bottom, forward,	213	912	Other tanks, if fitted,		
	380	1423	(If necessary, furnish further information by sketch.)		

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

Order for Special Survey No. 561

Date 20/7. 1928.

Dates of Surveys held while building

12/10-28 5/1, 14/1, 21/1, 29/1, 11/2, 12/2, 13/2, 19/2, 26/2, 4/3, 9/3, 12/3, 14/3, 10/4, 13/4, 18/4, 23/4, 27/4, 11/5, 4/5, 25/5, 27/5, 28/5, 30/5, 1/6, 10/6, 11/6, 12/6, 17/6, 19/6, 28/6, 2/7, 5/7, 9/7, 15/7, 20/7, 25/7, 27/7, 29/7, 30/7, 5/8, 9/8, 13/8, 16/8, 19/8, 20/8, 19/8, 21/8, 21/8, 22/8, 22/8, 28/8, 31/8, 2/9, 3/9, 4/9, 5/9, 6/9.

Total No. of Visits 59