

STEEL STEAMER or MOTORSHIP.

Received at London Office

JAN 18 1938

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 13th January 1937Port of CopenhagenNo. 10438Survey held at CopenhagenDate First Survey 5th March 1937 Last Survey 1st January 1938

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

Single Sc. M/V. "Höegh Silverstar"

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

Complete Superstructure Tonnage OpeningState Type of Erections Forecastle and Poop.TONNAGE under Tonnage Deck... 4725.38CLASS 100 A1 State if with freeboard as condition of Class yesBuilt at CopenhagenDo. 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) 430'0"Launched 13. November 37 Yard No. 1631Total ✓Breadth (greatest moulded) 58'0"Builders A/S. Burmeister & WainGross Tonnage 5414.78Depth, at middle of length from top of keel to top of beam at side of uppermost continuous deck. See Sec. 3 (1c) 37'0"Owners "Aruba", "Astrea", "Abaco."Register Tonnage 3260.501st Longitudinal Number (L x D) = 15910Managers Leif Höegh

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

2nd Numeral L x (B + D) = 40850Residence Oslo

REGISTERED DIMENSIONS.

FEET.

Length 442.0Framing Depth "d," at middle of length. See Sec. 3 (1d) 24.74Port of Registry OsloBreadth 58.4Proportions—Depth to Length—Uppermost continuous deck to top of keel 11.47If surveyed while building, afloat, and in dry dockDepth 25.4Draught Moulded 25'7 5/8"yes.

FRAMES, DOUBLE BOTTOM AND BEAMS.

	INCHES IN SHIP. + mm	Any Departure from Approved Plans to be Noted.		INCHES IN SHIP. + mm	Any Departure from Approved Plans to be Noted.
FRAMES, Spacing amidships	33" ✓	✓	Bracket Floors, Frame	230 90 11.5 ✓	✓
" " from 1/3 length amidships to Collision bulkhead	27" ✓	✓	" " Reversed Frame	230 90 11 ✓	✓
" " in peaks	24" ✓	✓	" " Vertical Struts	230 90 11 ✓	✓
SIDE FRAMING.			Centre Girder, depth and thickness amidships	44 x .54 ✓	✓
Frame Amidships, Angle E or C	340 100 13.25 ✓	✓	" " top Angles <u>double</u>	3 1/2 3 1/2 .48 ✓	✓
" " Extends up to	<u>Upper deck</u> ✓	✓	" " bottom Angles <u>double</u>	5 5 .54 ✓	✓
Reversed Frame Amidships, Angle	✓	✓	Side Girders, No. each side and thickness	1 off .38 ✓	✓
" " Extends up to	✓	✓	" " fwd 1/2 L. 2 off .38 and 3 off 1/2 height .38 ✓		✓
Depth of Framing Girder	340 ✓		Margin Plate depth (excl. of flange) and thickness	41 x .55 ✓	✓
Frames in Uppermost Continuous 'tween Decks, Angle E or C	6 1/2" ✓	✓	" " Vertical Angle to Tank side Bracket abaft 1/2 len. from stem	90 90 11.5 <u>double</u> ✓	✓
" " Second 'tween Decks, Angle E or C	8" ✓	✓	" " Vertical Angle to Tank side Bracket from forward 1/2 len. from stem to Panting Area	150 150 12 <u>double</u> ✓	✓
" " Third " " "	✓	✓	" " Gussets, spacing and scantling abaft 1/2 len. from stem	.43 continuous ✓	✓
" " from 1/2 len. for'd. to 15% len. from Stem	340 100 13.25 ✓	✓	" " Gussets, spacing and scantling from forward 1/2 len. from stem to Panting Area	.43 " ✓	✓
" " in Peaks, Angle or C	200 75 9.5 ✓	✓	Tank Side Brackets, height above base line at toe of Frame and thickness	7'0 x .47 ✓	✓
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	54 x .47 ✓	✓
Are the scantlings and arrangements in the Panting Area in accordance with the Rules and/or as approved?	<u>yes.</u> ✓	✓	Thickness of remainder in Holds	.45 ✓	✓
Are the scantlings and arrangements in way of the Bottom Forward in accordance with the Rules and/or as approved?	<u>yes.</u> ✓	✓	Are Rule requirements complied with regarding increases of scantlings in way of double bottom in E. & A space and framing in Bunkers and Boiler Room?	<u>yes.</u> ✓	✓
SINGLE BOTTOM.			BEAMS.		
Floors, Depth and thickness at mid-line in Holds	3 tiers of beams E 280 x 90 x 12 5 stringer plates 32 x .36 3 stringers 26 x .36 2nd 3 web frames 26 x .50 on frames 145-146 beams 300 x 100 x 14 1/2 ✓	✓	Uppermost Continuous Deck, amidships in Wells, Angle E or C	250 90 11.5 ✓	✓
Height of Brackets at side above base line at toe of frame	1/2 L. to 3/5 L. .69 and from 3/5 L. to Coll. b. .68 ✓	✓	" " in way of Bridge, Angle, C or C	✓	✓
Middle Line Keelson, on Floors, Angles, C or C	Bottom frames fwd 1/2 L 150 150 12 ✓	✓	Spacing	33" ✓	✓
" " Through Plate or Intercostal Plate	✓	✓	Second Deck, amidships, Angle E or C	340 100 18 ✓	✓
" " Foundation Plate on Floors	✓	✓	Spacing	300 90 19 ✓	✓
" " Flat Plate Keel Angles	✓	✓	Third Deck, amidships, Angle, C or C	33 ✓	✓
Side Keelsons, No. each side	✓	✓	Spacing	✓	✓
" " thickness of Intercostal Plate	✓	✓	Fourth Deck, amidships, Angle, C or C	✓	✓
" " Angles	✓	✓	Spacing	✓	✓
DOUBLE BOTTOM.			Poop Deck, Angle E or C	230 90 11 (33" sh) ✓	✓
Solid Floors, thickness and spacing	every 3rd frame .43 ✓	✓	Spacing	200 75 9.5 ✓	✓
" " Are Frame and Reversed Frame joggled?	<u>yes</u> ✓	✓	Bridge Deck, Angle, C or C	180 75 8.5 ✓	✓
Bracket Floors, breadth and thickness at middle line	4'6 x .43 ✓	✓	Spacing	33 and 24 ✓	✓
" " breadth and thickness at margin plate	4'3 x .43 ✓	✓	Forecastle Deck, Angle E or C	230 90 11 ✓	✓
			Spacing	180 75 8.5 ✓	✓

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.....			1						
" in 'tween Decks, Size and Spacing.....	0	12" .56	12" .44		Stringer Plate, breadth and thickness in way of Bridge	✓		✓	
to		9" .44			Thickness of Plating abreast Deck openings in way of Wells42	.38	✓	✓
" " " " " widely spaced.					Thickness of Plating abreast Deck openings in way of Bridge	✓		✓	
" in Holds	Centre, Line Bhd.	.34 plates			Thickness of Plating within line of openings...	.34	.42	✓	✓
stiffeners	280 90 12.5		66" spacing		If Sheathed, material and thickness	✓		✓	
to	230 90 11.5								
Centre Line Bulkhead, deceptank aft		.38 - .30			Third Deck.				
Stiffeners and Spacing.....	5	340 100 18	33" spacing	✓	Stringer Plate, breadth and thickness.....	✓		✓	
" " " deceptank fwd.		.40 - .30			If Plated, state thickness.....	✓		✓	
Plating, thickness of	5	300 90 13	27" spacing	✓					
girder	36" .42				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" .58"	✓	✓					
" " " " in way of Bridge		✓	✓	✓	Poop Deck.				
" Angle in Wells	150	150 16.25	✓	✓	Stringer Plate, breadth and thickness	37"	.36	✓	✓
Thickness of Plating abreast Deck openings in way of Wells54	✓	✓	Plating, Sheathing, material and thickness26	.30 and with 2 1/2" Oregon	✓	✓
Thickness of Plating abreast Deck openings in way of Bridge		✓	✓	✓	Bridge Deck.				
Thickness of Plating within line of openings...		.41	✓	✓	Stringer Plate, breadth and thickness.....	✓		✓	
If Sheathed, material and thickness		✓	✓	✓	Plating, Sheathing, material and thickness ...	✓		✓	
Second Deck.					Forecastle Deck.				
Stringer Plate, breadth and thickness in Wells...	81"	.42 - .41	✓	✓	Stringer Plate, breadth and thickness.....	35"	.36	✓	✓
					Plating, Sheathing, material and thickness30	✓	✓	✓

SHELL PLATING.

SCANTLINGS.					RIVETING.							
STRAKES.	AS IN VESSEL.				ANY DEPARTURE FROM APPROVED PLANS TO BE NOTED.	EDGES. State if jogged? <i>No</i> ✓			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	<i>54</i> ✓	<i>.79</i> ✓	<i>.74</i> ✓	<i>.69</i> ✓	✓	<i>Double</i> ✓	<i>1"</i> ✓	<i>4"</i> ✓	<i>4</i> ✓	<i>1"</i> ✓	<i>4"</i> ✓	<i>Lapped</i> ✓
" DBLG. (if any)	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓
BOTTOM PLATING, No. of Strakes <i>A.B.C.D.</i>	<i>81</i> ✓	<i>.63</i> ✓	<i>A.B.C = .68</i> <i>D = .63</i>	<i>.54</i> ✓	✓	<i>Double</i> ✓	<i>7/8</i> ✓	<i>3 3/8</i> ✓	<i>4</i> ✓	<i>7/8</i> ✓	<i>3 1/2</i> ✓	<i>Lapped</i> ✓
BILGE PLATING, No. of Strakes <i>E</i>	<i>70</i> ✓	<i>.63</i> ✓	<i>.56</i> ✓	<i>.60</i> ✓	✓	"	<i>7/8</i> ✓	<i>3 3/8</i> ✓	<i>4</i> ✓	<i>7/8</i> ✓	<i>3 1/2</i> ✓	" ✓
SIDE PLATING, No. of Strakes <i>F.G.H.I.</i>	<i>80</i> ✓	<i>.63</i> ✓	<i>.49</i> ✓	<i>.49</i> ✓	✓	"	<i>7/8</i> ✓	<i>3 3/8</i> ✓	<i>3</i> ✓	<i>7/8</i> ✓	<i>3 1/2</i> ✓	" ✓
UPPER DECK, Sheer- strake in Wells <i>L</i>	<i>51</i> ✓	<i>.71</i> ✓	<i>.47</i> ✓	<i>.47</i> ✓	✓	"	<i>7/8</i> ✓	<i>3 3/8</i> ✓	<i>4</i> ✓	<i>7/8</i> ✓	<i>3 1/2</i> ✓	" ✓
UPPER DECK, Sheer- strake in Bridge ...	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓
STRAKE BELOW Sheer- strake in Wells <i>K</i>	<i>56 1/2</i> ✓	<i>.67</i> ✓	<i>.47</i> ✓	<i>.47</i> ✓	✓	<i>Double</i> ✓	<i>7/8</i> ✓	<i>3 3/8</i> ✓	<i>4</i> ✓	<i>7/8</i> ✓	<i>3 1/2</i> ✓	<i>Lapped</i> ✓
STRAKE BELOW Sheer- strake in Bridge ...	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓
POOP SIDE PLATING	✓	✓	✓	<i>.40</i> ✓	✓	<i>single</i> ✓	<i>3/4</i> ✓	<i>2 1/2</i> ✓	<i>2</i> ✓	<i>3/4</i> ✓	<i>2 5/8</i> ✓	<i>Lapped</i> ✓
BRIDGE SIDE PLATING ...	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓
FOREC'TLE SIDE PLATING	✓	✓	<i>.42</i> ✓	✓	✓	<i>single</i> ✓	<i>3/4</i> ✓	<i>2 1/2</i> ✓	<i>2</i> ✓	<i>3/4</i> ✓	<i>2 5/8</i> ✓	<i>Lapped</i> ✓

WATERTIGHT BULKHEADS.

Total No. of W.T. BULKHEADS in Vessel—	
Extending to Upper Deck (Sec. 3 c)	1 ✓
" Deck next below	6 ✓
As per Rule	7 ✓

FORGINGS and CASTINGS.

	Casting or Forging.	Scantlings.	Maker's Name.	Any Departure from Approved Plans to be Noted.
KEEL, Bar	✓			
lower part	forging 2 1/2 x 10		Burmester & Wain	
STEM	✓			
upper part	steel plate .57		rudder .56	
STERN FRAME	✓			
Propeller Post	cast	✓	Kohlswa	
Rudder	cast	✓	Jernverks Aktiebolag	
Speed of Vessel.....			14 1/2 knots	✓
RUDDER—Type.....			starboard	
A + D	134.6		approximate	
Diam. of head	11"	✓	Jernverks	
Mainpiece at top pintle	200	✓	Aktiebolag	
" heel ...	150	✓		
how constructed				
double or single plate	double plate	12"	✓	
coupling, vertical or horizontal.....	horizontal		✓	

	Plating Thickness.	STIFFENERS.			
		VERTICAL.		HORIZONTAL.	
		Scantlings.	Spacing.	Scantlings.	Spacing.
MIDSHIP BULKHEAD, Upper tween decks					
" " Frame 79.	.30 - .38	5200.75	10.75	24 1/2	48" .40
" " Frame 90.	.30 - .38	5200.75	10.5	24 1/2	42" .40
" " Frame 64.	.30 - .38	5280.90	12	24 1/2	40" .40
COLLISION	(in Hold)	.26 - .54	5280.90	12.5	24 1/2
AFTER PEAK		.30 - .50	5250.90	12.5	24 1/2

STEEL.	Manufacturer's Name or Trade Mark of the Steel used in the construction of the Vessel (state process of manufacture)	open hearth
	Dorman, Long, Skinningrove works, Appleby Frodingham, Gutehoffnungshütte, Corvill, steel comp. of Scotland, Augsburg, Thyssenhütte, West Hartlepool steel works	
	Has the Steel been tested as required by the Rules?	yes

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.)

The following compartments have been approved for the carriage as fuel oil as cargo (F.P. above 150°F): Fore- and after peak and deep tank amidships frame 79/90 (Fuel or empty). After the forward deep tank originally approved and constructed for the carriage of vegetable oil has now been adapted and retested for the carrying of oil fuel (F.P. above 150°F) in accordance with the Secretary's letter.

No Cofferdam is fitted between the after peak tank carrying oil fuel as cargo and the after deep vegetable oil tank (see Secretary's letter of 16th Dec. 1936) but a letter of guarantee from the Owners, to the effect that oil fuel will not be carried in the after peak when vegetable oil is carried in the deep tank, as required in the Secretary's letter is forwarded herewith.

Refrigerating cargo hold has been fitted amidships.

List of as built plans attached.

All other plans are being retained in this office in order to deal with a sister vessel proposed to be built at Messrs. Burness & Co. and Main, yard No. 637.

PARTICULARS OF ELECTRIC WELDING (if employed)

SPECIAL NOTATIONS:—Either as part of the vessel's class or for record in the Register Book. Cruiser stern. Carrying oil fuel above 150°F in peak tanks and amidships deep tank. Forward deep tank adapted for carrying oil fuel above 150°F. Carrying vegetable oil in after deep tank. D.F. (Direction Finder) E.S.D. (Echo sounding device)

Particulars of Drop Test of Cast Steel Anchors, viz.:— Weight, Surveyor's Initials, Number of Certificate, Date of Test.	1st Bower Head 48:2:10 Shank 25:0:14 2nd " Head 48:1:18 Shank 25:0:22 3rd " Head 41:2:9 Shank 22:0:10	12 feet N ^o 999 1004 1000 1003 1001 1005	Jul. 1209st Dortmund 18.10.1937.
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PARTICULARS FOR RECORD in the REGISTER BOOK.—Length of Poop 31.75 ft., R.Q.D. ft., Bridge ft., Forecastle 71.75 ft.

(in feet and tenths). When the Poop or Forecastle are joined to the B.D., this should be distinctly stated.

Official No. Signal Letters L.J.S.X. Extreme Breadth over Belting Over-all Length 459.5'
No. and Material of Decks 2 decks, steel
Parts of Bottom of Vessel coated with cement or approved composition part cement (No 3 double bottom tanks)

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 not to be included in the lengths of the tanks, but Cofferdams and Dry Tanks (if tested) are to be included.)

Where Fitted.	Length. Feet.	Water Capacity. Tons.	Where Fitted.	Length. Feet.	Water Capacity. Tons.
Double bottom, aft,			Fore peak tank,	24.5	134
Double bottom, under Engines and Boilers,			After peak tank,	20.75	136
Double bottom, if under Engines only,			Deep tank, aft,	55	1171
Double bottom, if under Boilers only,			Deep tank, forward,	47.25	1180
Double bottom, forward,			Deep tanks, if fitted, amidships (wing tanks)	30.25	1148
Total length (if continuous) and Capacity	379.25	1432	(If necessary, furnish further information by sketch.)	8.25	254

Order for Special Survey No. 104

Date 10.8.1936.

Dates of Surveys held while building

March 37: 5.15.31. April: 21.27. June 1.6.10.16.17.26. July: 2.6.9.12.15. 23.27. Aug. 9.13.16.20.21.25.26.30. Sept. 1.9.7.14.16.18.21.23.29. Oct: 4. 6.9.15.19.23.25.26.27.28.29.30. Nov: 1.2.3.4.5.7.8.9.10.11.13.16.18. 29. Dec. 2.6.8.9.13.14.16.18.20.22.23.28.29.30.31. Jan. 38: 1.

Total No. of Visits 77.