

STEEL ~~STEAMER~~ or MOTORSHIP.Received at London Office **OCT 14 1938**State if Report has been sent on the Freeboard of the Vessel ☒ YesState if Report is sent on the Machinery of the Vessel ☒ Yes

Date of completion of report

11th October 1938 Port of **DANZIG**No. **137**Survey held at **DANZIG**Date First Survey **16th October 1937**Last Survey **14th September 1938**

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

Steel Twin Screw 'ARENDSEKERK'

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

Complete Superstructure with Tonnage Opening aft

State Type of Erections (Boop, Forecastle on Shell Deck)

TONNAGE under Tonnage Deck

6893.38CLASS **+100A1**State if with freeboard as condition of Class ☒ YesBuilt at **DANZIG**

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 483.8Launched **2nd June 1938** Yard No. **1391**

Total

6893.38

Breadth (greatest moulded)

B 63.0Builders **J. Schichau S.m.b.H., Danzig**

Gross Tonnage

7888.87

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

D 43.16Owners **Vereenigde Nederlandsche Scheepvaart Maatschappij**

Register Tonnage

4752.591st Longitudinal Number (L x D) = **20881**

Managers

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

2nd Numeral L x (B + D) = **51360**

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

18.7Residence **The Hague**

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

11.21Port of Registry **The Hague**

Length

493.64

Breadth

63.22

Depth

31.00

Draught Moulded

29.86

If surveyed while building, afloat, or in dry dock

While building, afloat and in dry dock

FRAMES, DOUBLE BOTTOM AND BEAMS.

	mm INCHES IN SHIP.	Any Departure from Approved Plans to be Noted.		mm INCHES IN SHIP.	Any Departure from Approved Plans to be Noted.
FRAMES, Spacing amidships	830	<input checked="" type="checkbox"/>	Bracket Floors, Frame	180 90 12	<input checked="" type="checkbox"/>
" " from $\frac{3}{4}$ length amidships to Collision bulkhead	685	<input checked="" type="checkbox"/>	" " Reversed Frame	180 75 9.5	<input checked="" type="checkbox"/>
" " in peaks	610	<input checked="" type="checkbox"/>	" " Vertical Struts	250 90 11	<input checked="" type="checkbox"/>
SIDE FRAMING.			Centre Girder, depth and thickness amidships	1200 14.5	<input checked="" type="checkbox"/>
Frame Amidships, Angle, E or C	42/63 320 100 13.5	<input checked="" type="checkbox"/>	" " top Angles double	90 90 13.5	<input checked="" type="checkbox"/>
" " Extends up to	91/100 300 90 13	<input checked="" type="checkbox"/>	" " bottom Angles double	130 130 15	<input checked="" type="checkbox"/>
Reversed Frame Amidships, Angle	145/154 320 100 14	<input checked="" type="checkbox"/>	Side Girders, No. each side and thickness	One each side 10.5	<input checked="" type="checkbox"/>
" " Extends up to	155/174 340 100 14.5	<input checked="" type="checkbox"/>	Margin Plate depth (excl. of flange) and thickness	1020 15.5	<input checked="" type="checkbox"/>
Depth of Framing Girder	11-63 180x90x8.5	<input checked="" type="checkbox"/>	" " Vertical Angle to Tank side Bracket abaft $\frac{1}{2}$ len. from stem	Tank side bracket electrically welded to margin plate	<input checked="" type="checkbox"/>
Frames in Uppermost Continuous 'tween (Shell Plating) Decks, Angle, E or C	65-89 250x90x11	<input checked="" type="checkbox"/>	" " Vertical Angle to Tank side Bracket from forward $\frac{1}{2}$ len. from stem to Panting Area	11.5	<input checked="" type="checkbox"/>
" " Second 'tween Decks, Angle, E or C	91-154 180x90x8.5	<input checked="" type="checkbox"/>	" " Gussets, spacing and scantling abaft $\frac{1}{2}$ len. from stem	continuous	<input checked="" type="checkbox"/>
" " Third " " " "	155-174 250x90x11	<input checked="" type="checkbox"/>	" " Gussets, spacing and scantling from forward $\frac{1}{2}$ len. from stem to Panting Area	1960 12	<input checked="" type="checkbox"/>
" " from $\frac{1}{2}$ len. for'd. to 15% len. from Stem	250x90x11	<input checked="" type="checkbox"/>	Tank Side Brackets, height above base line at toe of Frame and thickness	1450 15	<input checked="" type="checkbox"/>
" " in Peaks, Angle or C	230 90 11	<input checked="" type="checkbox"/>	INNER BOTTOM PLATING.		
Diameter and Spacing of Rivets through Frame and Shell Plating amidships	22mm 6d	<input checked="" type="checkbox"/>	Breadth and thickness of Middle Line Strake	12.5	<input checked="" type="checkbox"/>
State if Frame Joggled	No	<input checked="" type="checkbox"/>	Thickness of remainder in Holds	Yes	<input checked="" type="checkbox"/>
Are the scantlings and arrangements in the Panting Area in accordance with the Rules and/or as approved?	Yes	<input checked="" type="checkbox"/>	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	<input checked="" type="checkbox"/>
Are the scantlings and arrangements in way of the Bottom Forward in accordance with the Rules and/or as approved?	Yes	<input checked="" type="checkbox"/>	BEAMS.		
SINGLE BOTTOM.			Uppermost Continuous Deck, amidships (Shell Deck)	230 90 11	<input checked="" type="checkbox"/>
Floors, Depth and thickness at mid-line in Holds	22mm 5.5d	<input checked="" type="checkbox"/>	" " in Wells, Angle, E or C	830	<input checked="" type="checkbox"/>
Height of Brackets at side above base line at toe of frame	22mm 5.5d	<input checked="" type="checkbox"/>	" " in way of Bridge, Angle, E or C	685	<input checked="" type="checkbox"/>
Middle Line Keelson, on Floors, Angles, E or C	250x90x11	<input checked="" type="checkbox"/>	Spacing	685	<input checked="" type="checkbox"/>
" " Through Plate or Intercoastal Plate	280 90 12	<input checked="" type="checkbox"/>	Second Deck, amidships, Angle, E or C	250 90 11	<input checked="" type="checkbox"/>
" " Foundation Plate on Floors	280 90 12.5	<input checked="" type="checkbox"/>	(Upper Deck)	280 90 12	<input checked="" type="checkbox"/>
" " Flat Plate Keel Angles	280 90 13	<input checked="" type="checkbox"/>	Spacing	685	<input checked="" type="checkbox"/>
Side Keelsons, No. each side	280 90 13.5	<input checked="" type="checkbox"/>	Third Deck, amidships, Angle, E or C	250 90 11	<input checked="" type="checkbox"/>
" " thickness of Intercoastal Plate	280 90 12.5	<input checked="" type="checkbox"/>	(Tw. Deck)	280 90 12	<input checked="" type="checkbox"/>
" " Angles	280 90 13	<input checked="" type="checkbox"/>	Spacing	685	<input checked="" type="checkbox"/>
DOUBLE BOTTOM.			Fourth Deck, amidships, Angle, E or C	200 75 10.5	<input checked="" type="checkbox"/>
Solid Floors, thickness and spacing	11.5 on ev. 3rd fr.	<input checked="" type="checkbox"/>	Spacing	610x830	<input checked="" type="checkbox"/>
" " Are Frame and Reversed Frame joggled?	No	<input checked="" type="checkbox"/>	Poop Deck, Angle, E or C	180 75 10.5	<input checked="" type="checkbox"/>
Bracket Floors, breadth and thickness at middle line	900 11.5	<input checked="" type="checkbox"/>	Spacing	610x830	<input checked="" type="checkbox"/>
" " breadth and thickness at margin plate	900 11.5	<input checked="" type="checkbox"/>	Bridge Deck, Angle, E or C	200 75 10.5	<input checked="" type="checkbox"/>
			Spacing	685x610	<input checked="" type="checkbox"/>
			Forecastle Deck, Angle, E or C	200 75 10.5	<input checked="" type="checkbox"/>
			Spacing	685x610	<input checked="" type="checkbox"/>

PILLARS AND DECKS.

PILLARS, No. of Rows.....	mm INCHES IN SHIP.		Any Departure from Approved Plans to be Noted.		mm INCHES IN SHIP.	Any Departure from Approved Plans to be Noted.
	mm	INCHES				
Centre Line Bulkhead.	Ind 240	11	✓			
Stiffeners and Spacing.....	240	12	✓			
Plating, thickness of	7.5	8	✓			
STRINGERS AND DECKS.						
Uppermost Continuous Deck. (Shell or Deck)						
Stringer Plate, breadth and thickness in Wells	1440	22	✓			
" " " " in way of Bridge			✓			
" Angle in Wells	160	160	20	✓		
Thickness of Plating abreast Deck openings in way of Wells	19		✓			
Thickness of Plating abreast Deck openings in way of Bridge			✓			
Thickness of Plating within line of openings...	12	11	10	✓		
If Sheathed, material and thickness	not sheathed		✓			
Second Deck. (Upper Deck)						
Stringer Plate, breadth and thickness in Wells...	1360	11.5	✓			
Stringer Plate, breadth and thickness in way of Bridge			✓			
Thickness of Plating within line of openings...			✓			
If Sheathed, material and thickness	not sheathed		✓			
Third Deck.						
Stringer Plate, breadth and thickness	1300	10	✓			
If Plated, state thickness	7.5	10.5	✓			
Fourth Deck.						
Stringer Plate, breadth and thickness			✓			
If Plated, state thickness			✓			
Poop Deck.						
Stringer Plate, breadth and thickness	990	9.5	✓			
Plating, Sheathing, material and thickness	6.5		✓			
Bridge Deck.						
Stringer Plate, breadth and thickness			✓			
Plating, Sheathing, material and thickness			✓			
Forecastle Deck.						
Stringer Plate, breadth and thickness	1040	9.5	✓			
Plating, Sheathing, material and thickness	92	13	✓			
	not sheathed		✓			

SHELL PLATING.

SCANTLINGS.					RIVETING.									
STRAKES.	AS IN VESSEL.				ANY DEPARTURE FROM APPROVED PLANS TO BE NOTED.	EDGES.			BUTTS.					
	AMIDSHIPS.		FORWARD.	AFT.		State if jogged? <i>jogged</i>	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 mm
FLAT PLATE KEEL (A)...	1435	23.5	✓	22.21	✓	22.21	✓	Double	25	100	✓			
“ DBLG. (if any)	✓	✓	✓	✓				✓						
BOTTOM PLATING, No. of Strakes 4 (B, C, D, E)	2200	18	✓	21.5 15 10 15 14.5 21.5 18 18.5 17.5	✓	14 18 14	✓	Double	22	90	✓			
BILGE PLATING, No. of Strakes 1 (F).....	2155	18	✓	16.5	✓	14.5	✓	“	“	“	✓			
SIDE PLATING, No. of Strakes 4 (G, H, I, K)	2200	17.5	✓	13	✓	13	✓	“	“	“	✓			
SHELTER DECK, Sheer-strake in Wells M...	1320	21	✓	13	✓	13	✓	“	25	100	✓			
UPPER DECK, Sheer-strake in Bridge ...	✓	✓	✓	✓				✓	✓	✓				
STRAKE BELOW Sheer-strake in Wells L...	1950	18.5	✓	13	✓	13	✓	Double	22	90	✓			
STRAKE BELOW Sheer-strake in Bridge ...	✓	✓	✓	✓				✓	✓	✓				
POOP SIDE PLATING	✓	✓	✓	10.5	✓			Single	19	75	✓			
BRIDGE SIDE PLATING ...	✓	✓	✓	✓				✓	✓	✓				
FORECASTLE SIDE PLATING	✓	✓	✓	11	✓			Single	19	75	✓			

WATERTIGHT BULKHEADS.

Total No. of W.T. BULKHEADS in Vessel—				
Extending to Upper Deck (Sec. 3 c) (Shelter Deck)	1	✓		
" Deck next below (Upper Deck)	5		(Tween Dk) 1	
As per Rule	8			
STIFFENERS.	Plating Thickness.			
	VERTICAL.		HORIZONTAL.	
	Scantlings.	Spacing.	Scantlings.	Spacing.
MIDSHIP BULKHEAD, Upper tween decks				
" " Second "				
" " Third "				
" " Holds				
COLLISION " (in Hold)				
AFTER PEAK " "				

FORGINGS and CASTINGS.

	Casting or Forging.	Scantlings.	Maker's Name.	Any Departure from Approved Plans to be Noted.
KEEL, Bar			Flat plate keel	✓
STEM			Made of plating	✓
STERN FRAME { Propeller Post			678	✓
{ Rudder "	Casting		Schichau	✓
Speed of Vessel			16.5 knots	✓
RUDDER—Type Stream-line plate rudder			Schichau	✓
" A x D			22.5	✓
" Diam. of head	Forging		345	✓
" Mainpiece at top pintle	2 arms		Schichau	✓
" " heel ...	Castings		Elbing	✓
" how constructed			Electrically welded	✓
" double or single plate			Double plate	✓
" coupling, vertical or horizontal			Slanting	✓

STEEL.

Manufacturer's Name or Trade Mark of the Steel used in the construction of the Vessel (state process of manufacture) Deutsche Rohrenwerke A.G., Werk Thyssen-Mülheim-Ruhr, Dortmund-Hoerder Hüttenverein A.G., Werk Hörde, Gutehoffnungshütte A.G., vorm. L. Möhring, Schwerte-Ruhr, Walzwerk Oberhausen, Neu-Oberhausen, Hahn'sche Werke A.G., Duisburg-Grassbaum, Mannesmannröhren-Werke A.G., Rath & Bierwer Hütte Hückingen, Ruhrstahl A.G., Hattingen, Kampsnagel A.G., Hamburg, Bochumer Verein A.G., Deutsche Werke Kiel, Schichau-Elbing.

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

EQUIPMENT No. 52315					LETTER <i>ft</i>		ANCHORS.	
Number of Certificate.	Anchor.	WEIGHT, EX. STOCK KILOGRAMS	WEIGHT OF STOCK KILOGRAMS	TEST, PER CERTIFICATE KILOGRAMS	WEIGHT REQUIRED BY TABLE 53.	Description of Anchor.	Makers.	Where and when tested and Superintendent.
40	1st Bower ...	4 600	Stockless	6 440	4 540	Hall's Type Cast Steel Head	F. SCHICHAU G.m.b.H.	DANZIG, 19.8.38. R. STAPELFELD
41	2nd "	4 540	"	6 390	4 255	"	"	" 19.8.38 " "
69	3rd "	4 440	"	6 304	4 255	"	"	" 18.8.38 " "
	Collective weight.	13 580			13 080			
68	Stream	1 850	Stockless	3 395	1 345	Hall's Type Cast Steel Head	F. SCHICHAU G.m.b.H.	DA 18.8.38 R. STAPELFELD

CHAIN CABLES.										HAWERS 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.	Cir.	Length.	Cir.
	Fathoms. Ins.	Tons. Break- ing.	Supplied. Per Rule.	Fathoms. Ins.					Fathoms. Ins.	Tons.	Fathoms. Ins.				
110	312 2 3/8	169 2/3 23 1/2	1159.2.6	1040	300 2 5/8	Cast Steel Stud Runk Otto Brunsen & Co.	Magdeburg-Buckau, 28.4.38 N. STOLTE	Steel wire TOWLINE	134 5 1/2	84.4	130 5 1/2				
								Steel wire HAWERS & WARPS	2@110 2 3/4	21.12@100	2 3/4				
								Manilla	2@100 8	25.55@100	8				
Iron Stream Chain or Steel Wire	123 5	70.9			120 5	Steel wire rope J. H. GEMPT									

Steering Gear, Type (Power or hand) *Electrically driven. Makers Deutsche Werke 8310/1938* **Alternative Means of Steering** *Vertical shaft hand gear, coupled to after quadrant on rudder head.*

Steering Chains (Size and Test) *Not fitted* **Windlass** *Electrically driven. Makers Deutsche Werke 8309/1938* **Boats** *4 Lifeboats, 1 gig, dinghy. Wood*

Ceiling in Holds, thickness and material *63mm. Pine* **Cargo Battens**, thickness, material and spacing *150x50mm About 380 c.to c. Pine*

Cargo Hatchways. *Shott. (Upper Deck) Coamings 910x11mm. Stiffeners 2200x11 Stays 160x9 Thickness of Hatches 75mm*

Size of Hatchways No. 1 (Fwd.) *10275x5700* No. 2 *12450x6400* No. 3 *11620x6400* No. 4 *11620x6400* No. 5 *12450x6400* No. 6

Number of Shifting Beams *On shelter deck: No. 1: Five. No. 2: Six. No. 3: Six. No. 4: Six. No. 5: Six*

no and for Fore and Afters *fitted*

Builder's Signature *F. Schichau G. m. b. H. Elbing*
Abt. Schiffsverft zu Danzig
ppa.

GENERAL DECLARATION. It should be stated (a) whether the vessel (if not a motorship) is fitted for the carriage and burning of oil used as fuel *motorship*

(b) whether the vessel, not being an oil tanker, is fitted for carrying oil as cargo *Below 2nd dk in sid. deep tanks* The positions in which oil is carried as fuel or cargo should be indicated, together with the flash point (where required to be inserted in the Notation). *Oil fuel is to be carried in tunnel deep tanks, lateral & after end double bottom tanks under engine space, deep tanks below 2nd deck, double bottom tanks forward & fore peak tank. The requirements of the Rules for the carriage and burning of oil used as fuel have been carried out. Vegetable oil is to be carried in the tween deck deep tanks forward. The flash point of the oil used as fuel to be above 150°F*

The workmanship is of a good quality and the vessel has been constructed in accordance with the approved plans and the Secretary's letters also applicable to the sister ship 'ABBEXERK' Messrs Schichau's Yard No 1419 now under construction at Danzig. The peak tanks, deep tanks & double bottom tanks have been tested by water pressure and found tight. The watertight bulkheads, weather & tunnel decks have been hose tested and found tight. Tunnel watertight door, chain locker hand pump examined tried & found in working order. The vessel was examined in dry dock at Danzig on the 20th August 1938 when all under water parts were found in good condition & the bottom was recoated after a small indentation in shell plate F16 port side had been faired in place. It was stated that this damage was sustained through coming into contact with the side of the dry dock when entering same on the above stated date. It is therefore submitted that a date of build 1938, 9th month be assigned by the Committee in this case.

The amount of Entry Fee £ 16 : 13 : 0 Fees applied for, 20.9. 1938

Special Survey Fee.... £662 : 2 : 0 Received by me, 18.10.19.38

Travelling Expenses, if any £ 10 : 0 : 0

I am of opinion the Vessel should be Classed **100A1 'with freeboard'*

State whether the Vessel has been built under Special Survey *Built under Special Survey* Signature *James C. Dykes*
Surveyor to Lloyd's Register of Shipping.

Certificate to be sent to *Danzig* Date of issue *15/11/38*

Committee's Minute

Character assigned *+100A1 with freeboard*

Lloyd's A & C P *+Lmc 9 38*

DB 100 lb *DB (WT) 100 lb* *Ch*

Del Eng *Lloyd's Register*

W 413-0037(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.)

PILLARS			Principal transverse w.t. Bulkheads:	
Position	Wt. of Rows	Scantlings	Approved plans under separate cover:	
Frame 8: Shell, Tw. Dk. & cruiser stern space	1	108x8 hollow seamless	On Frame No. 10: A.P. Bhd. extending to Upp. Dk.	1) Profile & Decks H4922. 30.4.37
" 7: A.P. bel. side mark pit & stinger	2	180x75x10	Plating: 12 to 7.5 Vert. stiffeners: 260x12	2) H4923. " " "
" 10: Shell, Tw. Dk.	2	108x8 seamless hollow	220x10, 200x9, 180x8, 160x7 spaced 533 to 600	3) with Minib. Sect. H4930. 4.5.37
" 14: Second Tw. Dk.	2	267x9.5 "	2 Horiz. stiffeners: 180x8	4) W.L. & O.F. Bulkhd. H4927. 6.5.37
Bel. Trs. 23 & 24: Tunnel to Sec. Tw. Dk.	2	Type A. 12mm p.l.t. 1 web 10mm	On Frame No. 41: Extending to Upp. Dk.	5) Fore. After Rat Bhd. H4928. 6.5.37
" " " " in Second Tw. Dk.	2	" C. 11 " " " " "	Plating: 11 to 10 to 4	6) Deep Tanks H4929. 6.5.37
" " " " in Shell, Tw. Dk.	2	180x75x8	Vert. stiffeners: 200x10, 180x10 spaced 800	7) Rudder H4914. 8.1.37
" " 33 & 34: Tunnel to Sec. Tw. Dk.	2	Type B. 12mm p.l.t. 1 web 10mm	On Frame No. 64: Extending to Upp. Dk.	8) Eng. Seating H4938. 5.2.37
" " " " in Second Tw. Dk.	2	" C. 11 " " " " "	Plating: 11 to 6.5	9) Prop. Brackets H4953. 18.2.37
" " " " in Shell, Tw. Dk.	2	180x75x8	Vert. stiffeners: 220x11, 180x10 spaced 715 to 800	10) Stem Frame H4940. 22.2.37
" " 44 & 48: Tunnel to Upp. Dk.	2	Type B. 12mm p.l.t. 3 webs 10mm	On Frame No. 90: Extending to Upp. Dk.	11) Stacks H4809. 2.3.37
" " " " in Shell, Tw. Dk.	2	" C. 11 " " " " "	Plating: 11 to 6.5	12) Shell Exports H4958a. 26.5.37
" " 54 & 58: Tunnel to Upp. Dk.	2	Type B. 12mm p.l.t. 3 webs 10mm	Vert. stiffeners: 220x11, 180x10 spaced 715 to 800	13) Pillar Supports H5031. 2.7.37
" " " " in Shell, Tw. Dk.	2	" C. 11 " " " " "	On Frame No. 101: Extending to Tw. Dk.	14) Shell Deck Support H5539. 22.2.38
In Long Sp. Trs. 73 & 81: Tanktop to Upp. Dk.	2	160x160x14	Plating: 11 to 7.5	15) On Lumber Bld. H5630. 1.4.38
Bel. Trs. 106 & 107: Tanktop to Second Tw. Dk.	2	Type D. 11.5mm p.l.t. 2 webs 10mm	Vert. stiffeners: 200x11, 200x9 spaced 560 to 575	
" " " " in Second Tw. Dk.	2	" C. 11mm p.l.t. 1 web 10mm	2 Vert. Webs: Plt. 830x10. Gate 300x22	
" " 112: in Shell, Tw. Dk.	2	180x75x8	1 Horiz. Sticker: " " x " 150x16	
" " 112: Tanktop to Sec. Tw. Dk.	2	230x90x11	On Frame No. 101: Extending to Tw. Dk.	
" " " " in Second Tw. Dk.	2	508x14 hollow welded	Plating: 12 to 7.5	
" " " " in Shell, Tw. Dk.	2	390x14 "	Vert. stiffeners: 220x10, 300x15 spaced 564 to 595	
" " " " in Deck House	2	216x8.5 " seamless	2 Vert. Webs: Plt. 830x10. Gate 300x22	
" " 120: Tanktop to Sec. Tw. Dk.	2	108x8 "	1 Horiz. Sticker: " " x " 150x16	
" " " " in Second Tw. Dk.	2	508x14 hollow welded	On Frame No. 144: Extending to Upp. Dk.	
" " " " in Shell, Tw. Dk.	2	390x14 "	Plating: 12 to 7.5	
" " " " in Deck House	2	216x8.5 " seamless	Vert. stiffeners: 300x16, 300x14, 280x13, 220x10	
Bel. Trs. 124 & 128: Tanktop to Sec. Tw. Dk.	2	108x8 "	160x8. spaced 800.	
" " " " in Second Tw. Dk.	2	Type A. 17mm p.l.t. 3 webs 10mm	On Frame No. 145: Coll. Bhd to Shelter Dk.	
" " " " in Shell, Tw. Dk.	2	" C. 11 " " " " "	Plating: 13 to 4	
" " 138 & 139: Tanktop to Sec. Tw. Dk.	2	180x75x8	Vert. stiffeners: 200x9, 180x10, 180x8, 160x7	
" " " " in Second Tw. Dk.	2	Type A. 15.5mm p.l.t. 3 webs 10mm	130x6. spaced 600 to 800	
" " " " in Shell, Tw. Dk.	2	" C. 11 " " " " "		
" " 155 & 156: Tanktop to Sec. Tw. Dk.	2	180x75x8		
" " " " in Sec. Tw. Dk.	2	Type A. 13mm p.l.t. 2 webs 10mm		
" " " " in Shell, Tw. Dk.	2	" C. 11 " " " " "		
Frame 168 in Second Tw. Dk.	2	180x75x8		
" " " " in Shell, Tw. Dk.	2	390x14 hollow welded		
" " 185 in Second Tw. Dk.	1	216x8.5 " seamless		
" " " " in Shell, Tw. Dk.	1	267x9.5 " "		
" " " " in Forecastle	1	216x8.5 " "		
" " 187 in Second Tw. Dk.	1	108x8 " "		
" " " " in Shell, Tw. Dk.	1	108x8 " "		
" " 189 " " "	1	108x8 " "		
" " 24 & 27: Tunnel Tanks	1	105 solid		
" " 35 & 39: Tunnel Tanks	1	110 solid		

Principal transverse w.t. Bulkheads:

On Frame No. 10: A.P. Bhd. extending to Upp. Dk.
Plating: 12 to 7.5 Vert. stiffeners: 260x12
220x10, 200x9, 180x8, 160x7 spaced 533 to 600
2 Horiz. stiffeners: 180x8

On Frame No. 41: Extending to Upp. Dk.
Plating: 11 to 10 to 4
Vert. stiffeners: 200x10, 180x10 spaced 800

On Frame No. 64: Extending to Upp. Dk.
Plating: 11 to 6.5
Vert. stiffeners: 220x11, 180x10 spaced 715 to 800

On Frame No. 90: Extending to Upp. Dk.
Plating: 11 to 7.5
Vert. stiffeners: 200x11, 200x9 spaced 560 to 575
2 Vert. Webs: Plt. 830x10. Gate 300x22
1 Horiz. Sticker: " " x " 150x16

On Frame No. 101: Extending to Tw. Dk.
Plating: 12 to 7.5
Vert. stiffeners: 220x10, 300x15 spaced 564 to 595
2 Vert. Webs: Plt. 830x10. Gate 300x22
1 Horiz. Sticker: " " x " 150x16

On Frame No. 144: Extending to Upp. Dk.
Plating: 12 to 7.5
Vert. stiffeners: 300x16, 300x14, 280x13, 220x10
160x8. spaced 800.

On Frame No. 145: Coll. Bhd to Shelter Dk.
Plating: 13 to 4
Vert. stiffeners: 200x9, 180x10, 180x8, 160x7
130x6. spaced 600 to 800

Approved plans under separate cover:

1) Profile & Decks	H4922.	30.4.37
2) H4923.	"	"
3) with Minib. Sect.	H4930.	4.5.37
4) W.L. & O.F. Bulkhd.	H4927.	6.5.37
5) Fore. After Rat Bhd.	H4928.	6.5.37
6) Deep Tanks	H4929.	6.5.37
7) Rudder	H4914.	8.1.37
8) Eng. Seating	H4938.	5.2.37
9) Prop. Brackets	H4953.	18.2.37
10) Stem Frame	H4940.	22.2.37
11) Stacks	H4809.	2.3.37
12) Shell Exports	H4958a.	26.5.37
13) Pillar Supports	H5031.	2.7.37
14) Shell Deck Support	H5539.	22.2.38
15) On Lumber Bld.	H5630.	1.4.38

Not received with
D.E. Bldg
J.H.

PARTICULARS OF ELECTRIC WELDING (if employed)

Electric welding has been applied to the following parts: Butts of shell & deck plating, stem, butts & edges of double bottom plating, floors with centre girder, side girders & margin plate, tank side brackets with margin plate, busses with margin plates, engine seatings, pillars & deck girders, stringers, horizontal girders in deep tanks, plating & stiffening of casings & houses, hatchway coamings, hatchway shifting beams & rudder body.

The Rules for the application of electric arc welding to ship construction have been complied with.

SPECIAL NOTATIONS:—Either as part of the vessel's class or for record in the Register Book "1 Intermediate BH and 1 lower dk. BH dispensed with; Collision BH to shelter dk., 5 BH to 2nd Dk., 1 BH to 3rd dk. 1 Dk & Shelter dk., 3rd dk except in hold No. 3. Cruiser Stern. (Rudder electrically welded) Lloyd's A & C.P.

Particulars of Drop Test of Cast Steel Anchors, viz. :—	1st Bower	Cast Steel Head: 3080kg F.S. 34 4.3.38
Weight, Surveyor's Initials,	2nd "	" " " : 3050kg F.S. 33 4.3.38
Number of Certificate, Date of Test.	3rd "	" " " : 2970kg F.S. 29 4.2.38
	STREAM	" " " : 1270kg F.S. 27 9.12.37

PARTICULARS FOR RECORD in the REGISTER BOOK.—Length of Poop 32.1 ft., R.Q.D. ft., Bridge ft., Forecastle 39.3 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 PCTH Extreme Breadth over Belting 63.25 ft. Over-all Length 522.28 ft.
No. and Material of Decks 3 decks steel
Parts of Bottom of Vessel coated with cement or approved composition Coated with cement: After peak tank, Centre tunnel tank between frames 30 & 40, Double bottom fed water tank between frames 69 & 75
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.	Water Capacity.	Where Fitted.	Length.	Water Capacity.
	Feet.	Tons.		Feet.	Tons.
Double bottom, aft,	✓	✓	Fore peak tank,		73
Double bottom, under Engines and Boilers,	✓	✓	After peak tank,		396
Double bottom, if under Engines only,	62.3	361	Deep tank, aft, in way of tunnels	92.5	800
Double bottom, if under Boilers only,	✓	✓	Deep tank, forward,	30.0	1164
Double bottom, forward,	224.5	807	Other tanks, if fitted,		
Total length (if continuous) and Capacity	286.8	1168	(If necessary, furnish further information by sketch.)		

Order for Special Survey No. 11

Date 21. Nov. 1936

Dates of Surveys held while building

1937: Oct. 16, 21. Nov. 8, 9, 23, 26. Dec. 6, 15, 29

1938: Jan. 4, 25, 26 Feb. 5, 8, 18 Mar. 3, 15, 19, 24, 31. April 1, 4, 8, 11, 12, 13, 19, 20, 21, 26, 26,

28, 29 May 6, 9, 12, 16, 19, 24, 27, 30, 31 June 1, 2, 7, 11, 13, 14, 16, 18, 24 July 12, 21 Aug. 4, 10

12, 15, 17, 18, 20, 21, 22, 25, 27, 28 Sept. 1, 2, 4, 6, 7, 14

Total No. of Visits 41