

No. 2658

THE BRITISH CORPORATION REGISTER  
OF SHIPPING AND AIRCRAFT

2959  
Report No. 1022 No. in Register Book 2591

Ship M.V. ERNA

Builder ZAAANLANDSCHE SCHEEPSB. M.J.

Yard No. 423

HULL AND EQUIPMENT



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002659-002666-0104

134' 6"  
11' 6" x 6' 6" x 6' 6"  
7 1/2 knots  
M 21-15

THE BRITISH CORPORATION REGISTER  
OF SHIPPING AND AIRCRAFT

Report No. *1022* No. in Register Book.....

Received at Head Office..... *17/4/40*

Surveyor's Report on the Construction of the

Single  Screw M.V. „ERNA“

Surveyor's District *Rotterdam.*  
Builders *Haarlandsche Scheepb. Mij.*  
Yard No. *423.* Where Built *Haarlem.*  
Owners *J. J. Janssen and L. J. Hendriks.*  
Port of Registry *Haarlem* Flag *Dutch.*  
Managers *—*  
Manager's Address *—*  
Official No. *—*  
Rig *One mast* Code Letters *P.D. Y.Q.*  
Scantling Sections approved by Committee *8th May 1939.*  
To be classed *B. S. \* Unrestricted Service.*  
With a Freeboard of *1.05 M.*  
Date of First Visit *22-6-'39*  
Date of Last Visit *29-3-40*  
Total number of Visits *24*  
Keel Laid *7-7-'39* Launched *7-3-'40*  
Date of Build *1940* Date of this Report *2-7-40*

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## PARTICULARS.

Registered Dimensions

41.49 x 7.33 x 2.52 M.

Tonnages—

Tons.

Under Tonnage Deck

In ..... 'Tween Decks

In ..... 'Tween Decks

In ..... 'Tween Decks

In Turret

Suez Canal Tonnage—

Under Deck Tonnage

206.00.

Tonnage in Poop

„ R.Q.D.

„ Bridge

„ Forecastle

„ Hatchways

„ Deck Houses

„ Chart Houses

„ Light and Air Spaces

Gross Tonnage

361.18

Deductions—

Crew Space

Engine Room %

Light and Air

Navigation Spaces and Stores

Peak Tanks

Deep Tanks

Net Registered Tonnage

167.01

Date of Expiry of Vessel's B.O.T. Passenge Certificate

134'-6" PARTICULARS—Continued.

Moulded Dimensions

41.00 x 7.30 x 2.97 M.

Height of Superstructure

1.00 M.

Proportions  $\frac{L}{B} = 5.62$  $\frac{L}{D} = 13.8$  $\frac{D}{B} = 0.407$  $\frac{L}{D \text{ (to top of Superstructure)}} = 10.32$ 

Camber 200 m.m.

Rise of Floor 50 m.m.

Number and Description of Decks for Register Book

Forecastle deck, Main deck  
Raised Q Deck, Poop deck.

Number of Decks under Freeboard Deck

„ „ above „ „

Heights of 'Tween Decks

Particulars of Superstructures

See LL 4% form.

Distance between Bulkheads of Superstructures

Freeboard Ratios of Superstructures

Watertight Bulkheads.—State Number of Frame and Deck to which each Bulkhead extends—See page 5.

Bulkhead, Frame No.	extends to Deck.	Bulkhead, Frame No.	extends to Deck.
Fore Peak	65/68 „ Forecastle „	No. 8	„ „ „ „
No. 1	19 „ Poop „	„ 9	„ „ „ „
„ 2	„ „ „ „	„ 10	„ „ „ „
„ 3	„ „ „ „	„ 11	„ „ „ „
„ 4	„ „ „ „	„ 12	„ „ „ „
„ 5	„ „ „ „	„ 13	„ „ „ „
„ 6	„ „ „ „	„ 14	„ „ „ „
„ 7	„ „ „ „	After Peak	5 „ „ „

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## PARTICULARS—Continued.

State which Bulkheads enclose Machinery Space

Frame 5 - frame 19.

State Number of Bulkheads to be recorded as effective

2

Number and Length of effective Watertight Compartments beginning Forward

Forepeak = 5.00 M  
 Hold = 25.30 M  
 Eng. Room = 7.70 M  
 Afterpeak + Fresh W.T. = 3.00 M.

Number of Non-Watertight Bulkheads

Double Bottom

Extends from Frame

19

to Frame

56.

Length and Capacity of Tanks

No. 1	7.50' <sup>M</sup> <del>2</del> x 12.25 Tons.	Fore Peak	5 <sup>M</sup> <del>Foot</del>	29	Tons.
" 2	4.40 " 2 x 7.375 "	Aft Peak	2.20 "	9	"
" 3	8.25 " 2 x 12.25 "	Deep Tanks	"	"	"
" 4	" " "				
" 5	" " "				
" 6	" " "	Oil Bunkers	"	"	"
" 7	" " "				
" 8	" " "				
" 9	" " "				
" 10	" " "				

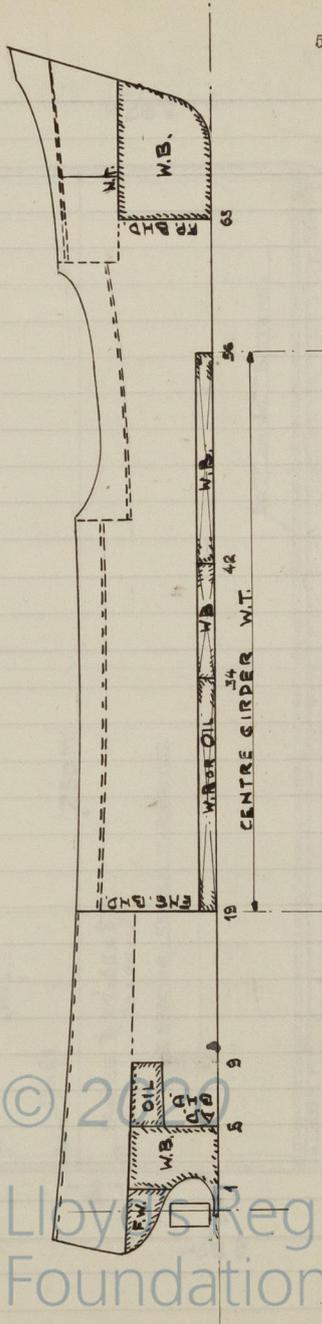
Particulars of Oil Fuel Tanks in Double Bottom.

Tank No 3 SB and PS  
 can be used as oil  
 tank.

State where Centre Girder Watertight

Frame 19-56.

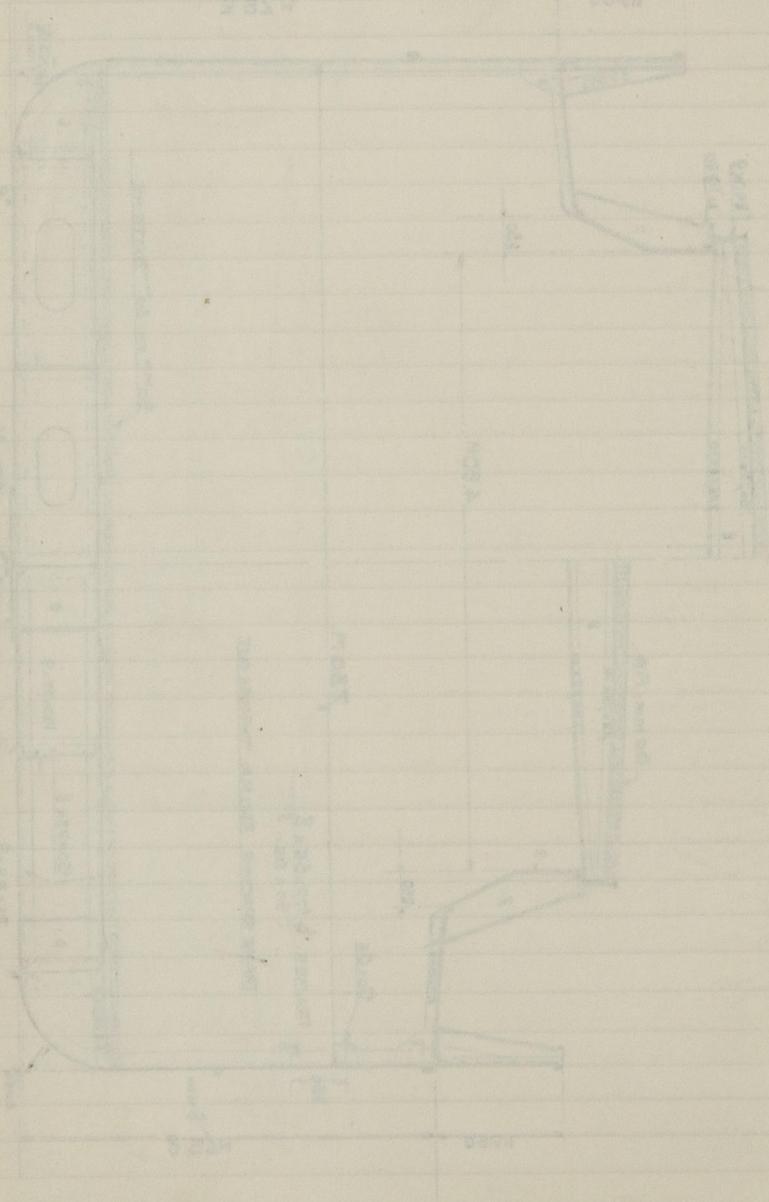
Sketch showing Arrangement of Bulkheads, Tanks, &amp;c.



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SKETCHES OF FORE AND AFTER PEAK STRUCTURE



WHERE DETAIL PLANS AS BUILT ARE NOT AVAILABLE.

PARTICULARS OF SCANTLINGS, ETC.

Where it is impracticably stated in this report that any portion of the structure is in accordance with Plans and Particulars are therefore not detailed the name of this is to be entered in the appropriate place. Such plans should in all cases represent the structure as built.

All differences from approved Plans and or the Rules are to be recorded in this report, together with any necessary explanatory sketches.

Where no detailed Plan is on record, full particulars of Scantlings, Construction and Riveting are to be reported in conjunction with such sketches as are necessary for clearance.

Where riveting is in exact accordance with the approved Plans and or Rules this is to be stated in each case and particulars of any departure therefrom are to be detailed in all cases.



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### PARTICULARS OF SCANTLINGS, ETC.

Where it is subsequently stated in this report that any portion of the structure is in accordance with Plans, and particulars are therefore not detailed, the name of plan is to be entered in the appropriate place. Such plans should in all cases represent the structure as built.

All differences from approved Plans and/or the Rules are to be recorded in this report, together with any necessary explanatory Sketches.

Where no detailed Plan is on record, full particulars of Scantlings, Construction and Riveting are to be reported, in conjunction with such Sketches as are necessary for clearness.

Where riveting is in exact accordance with the approved Plans and/or Rules this is to be stated in each case, and particulars of any departure therefrom are to be detailed in all cases.

### GENERAL.

#### MATERIAL.

In the case of **Steel Ships** state particulars of Parts where Iron is used

In the case of **Wood Ships** state particulars of Wood used in different parts

In the case of **Reinforced Concrete Ships** state particulars of Concrete used in different parts and also Nature and Quality of Reinforcement

State, to the best of your knowledge, whether the Materials used have been tested, and are in accordance with the Rule requirements

Give particulars of all Tests carried out under your supervision or date of your Report thereon

*Part of anglebar and plates remaining from Newbuilding N<sup>o</sup> 420, have been used for this ship, all with B.C. certificates.*

*Keel plates, made of stock material have been used, see our letters 27<sup>th</sup> and 29<sup>th</sup> July 1939.*

*Remaining parts as per certificate: plates: Delivered by S. A. d'Anglemont, Athus, Belgique and tested by S. Reynolds 4-9-39.*

*anglebar: delivered by Gutchoffnungshütte Oberhausen A.G.*

*please see G.L.-B.C. certificates.*

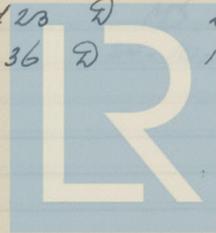
*N<sup>o</sup> 137467 a/D 15 Sept 1939*

*N<sup>o</sup> 137035 D 8 Sept 1939*

*N<sup>o</sup> 136724 W 25 Aug. 1939*

*N<sup>o</sup> 136720 D 25 Aug 1939*

*N<sup>o</sup> 136236 D 15 Aug. 1939.*



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## GENERAL—Continued.

## KEELS, STEMS, STERN FRAMES, AND RUDDERS.

State particulars, which do not appear on reference Plans, of Dimensions; Scarphs of Bar Keels; Stems; Stern Frames; Butts of Flat Plate Keels; Connections at Heel of Stems and Stern Frames to Hull; Rudder Stocks, Couplings, Pintles, Gudgeons, Rudder Arms, Riveting; and whether forged or cast; Arrangement and Scantlings of Spectacle Bossing or Propeller Brackets and state material.

State whether particulars not given are in accordance with approved Plans

State name of approved Plans and date of approval.

Keel, according appr. plan 8<sup>th</sup> May 1939.  
docking keel 160 x 22 mm. fitted, see our  
letters of 27<sup>th</sup> and 29<sup>th</sup> July 1939.

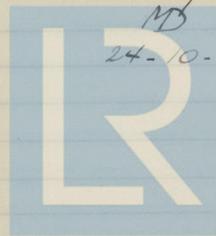
Stem, according approved plan of 8<sup>th</sup> May 1939

Sternframe, according approved plan 29<sup>th</sup> July 1939  
amendments carried out. See forging  
report N<sup>o</sup> 221.

Stamped B.C. Test  
N<sup>o</sup> 4655  
MD  
1-9-39.

Rudder, according approved plan 29<sup>th</sup> July '39  
amendments carried out.  
See forging report N<sup>o</sup> 221.

Stamped: B.C. Test.  
N<sup>o</sup> 4675  
MD  
24-10-39.



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## CENTRE KEELSONS (SINGLE BOTTOM).

State particulars, which do not appear on reference Plans, of Scantlings and Riveting, illustrated by Sketches

of Construction, amidship, at ends, and under Bollers and Engines; of Connections to Keel; Horizontal

Top Plates; Rider Keelson; Floor Connections and End Connections.

State whether particulars not given are in accordance with approved Plans.

State name of approved Plans and date of approval.

Centre Keelson Height and thickness  
as per approved plan 8<sup>th</sup> May 1939.  
Connected to Keelplate and Tanktop by  
electric welding.

Stiffened between the floors from frame 19  
to forward. (see our letter 29<sup>th</sup> July 1939.)

## SINGLE BOTTOMS.

State particulars, which do not appear on reference Plans, of Floors, Frames, Reverse Frames, Side Girders,

Engine and Thrust Seats, Boiler Bearers, End Floors, Bossing, and Transom Floors.

State whether particulars not given are in accordance with approved Plans.

State name of approved Plans and date of approval.

Single bottom from frame 56-65, as  
per approved plan 8<sup>th</sup> May 1939.  
Knees from frame to Centre Girders fitted.



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## SINGLE BOTTOMS—Continued.

## DOUBLE BOTTOM.

State particulars, which do not appear on reference Plans, of Scantlings and Riveting, illustrated by Sketches of Construction, of Centre Girders Amidships, at Ends, and under Boilers and Engines; End Connections; Manholes in Centre Girder and Compensation where fitted; Centre Girder where watertight; Scantlings, &c., of Solid Floors; Frames and Reverse Frames on Solid Floors; Stiffeners on Tank End Floors; Open Floors, extent and spacing; Open Floor Frames, Reverses, Struts, and Brackets; Tank Top Plating, Butts, and Seams; Sheathing; Margin Plates; Margin Brackets to hold Frames; Connection to Tank Margin and Frames; Gussets; Intercostal Girders, amidships, under Engines, Thrust, Boilers, and Boiler Bearers; Arrangement and Spacing at Ends; Engine and Thrust Seatings; Stiffening under Wide Spaced Pillars and Air Pipes in each Compartment of Double Bottom.

State whether particulars not given are in accordance with approved Plans.

State name of approved Plans and date of approval.

			Date.	Surveyor's Initial.
No. 1 Compartment (forward) tested and found satisfactory				
	SB		28-2-40	D
	PS		26-2-'40	A
" 2 "	"			
	SB		29-2-'40	A
	PS		29-2-40	A
" 3 "	"			
	SB		26-2-'40	A
	PS		28-2-'40	D
" 4 "	"			
" 5 "	"			
" 6 "	"			

Double bottom carried out according approved plan 8<sup>th</sup> May 1940.  
Centre girder welded electrically to keel and bladder in stake.  
W.T. floor on frame 1<sup>st</sup> 2<sup>nd</sup> 3<sup>rd</sup> and 4<sup>th</sup> and carried out as full floor.  
Open floors: frames and reverse frames 4 100 x 75 x 8, struts for side girders

## DOUBLE BOTTOM—Continued.

7 100 x 75 x 8.

## HOLD FRAMES AND REVERSE FRAMES

State particulars, which do not appear on reference Plans, of all Framing in Holds; Bunkers; Boiler Space

Engine Space; Deep Tanks; at Tunnel Flats; also Connections at Head and Heel.

State whether particulars not given are in accordance with approved Plans.

State name of approved Plans and date of approval.

Hold frames: Frame 20-56 7 100 x 65 x 8  
 Frame 57-64 7 90 x 65 x 8

Reverse frames Frames N<sup>o</sup> 22, 25, 28, 31, 34,  
 N<sup>o</sup> 37, 40, 41, 42, 43  
 N<sup>o</sup> 45, 47, 50, 53, 56  
 N<sup>o</sup> 59. 7 65 x 65 x 8.

Intermediate Frames in way of hold  
 7 90 x 65 x 8.



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## HOLD FRAMES AND REVERSE FRAMES—Continued.

## TWEEN DECK FRAMING.

State particulars, which do not appear on reference Plans, of Framing in various Tween Decks.

State whether particulars not given are in accordance with approved Plans.

State name of approved Plans and date of approval.



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## WEB FRAMES AND SIDE STRINGERS.

State particulars, which do not appear on reference Plans, of Scantlings; Spacing; Attachments at Head and Heel; Reverse Frames; Ends of Side Stringers; Beams at Heads of Web Frames.

State whether particulars not given are in accordance with approved Plans.

State name of approved Plans and date of approval.

## WEB FRAMES AND SIDE STRINGERS—Continued.



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## HOLD KEELSONS AND STRINGERS.

State particulars, which do not appear on reference Plans, of Side Keelsons, Scantlings and Spacing Amidships, E. & B. Space, and Forward, and Connections to Floor Plates; Side Stringers, Scantlings, Extent, Spacing; Butts of Continuous Side Keelsons and Side Stringers; Connections to Bulkheads; Hold Stringers, Scantlings, and End Connections

State whether particulars not given are in accordance with approved Plans.

State name of approved Plans and date of approval.

## HOLD KEELSONS AND STRINGERS—Continued,



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## BEAMS.

State particulars, which do not appear on reference Plans, of Spacing and Scantlings of Beams, Half Beams, Beam Knees and Lug Connections to Girders and Hatch Coamings on all Decks; Beams of Deep Tank Tops, Tunnel Tops, Bulkhead Recesses, Open Decks, Transom Beams, Wide Spaced Hold Beams, and Strong Beams in Machinery Space.

State whether particulars not given are in accordance with approved Plans.

State name of approved Plans and date of approval.

Beams. according approved plan  
8<sup>th</sup> May 1939.

## BEAMS—Continued.



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## STANCHIONS, PILLARS, AND GIRDERS.

State particulars, which do not appear on reference Plans, of number of Rows of Stanchions and where fitted ; distance out from Centre Line of Girders or Runners ; Spacing, Type, and General Scantlings of Stanchions, Pillars and Girders ; Attachment at Heads and Heels of Stanchions and Pillars ; Pillars in Engine Room ; Attachment of Girders to Bulkheads and at Hatch Corners, Supports under Bulkhead Recesses and Deep Tanks ; Supports at ends and corners of Deckhouses and Erections ; extent and details of Longitudinal Cargo Divisions.

State whether particulars not given are in accordance with approved Plans.

State name of approved Plans and date of approval.

*Girders, as per approved plan  
18<sup>th</sup> May 1939.*

*Pillars fitted:*

*In Engineer room 5B frame 15*

*2 90 x 90 x 10*

*In footspace frame N = 3 2φ*

## STANCHIONS, PILLARS, AND GIRDERS—Continued.



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## WATERTIGHT BULKHEADS.

State particulars, which do not appear on reference Plans, of Watertight Bulkheads as given on page 3;

Webs in Tween Decks above Bulkheads; Attachments; Sluice Valves and Cocks.

State whether particulars not given are in accordance with approved Plans.

State name of approved Plans and date of approval.

(See also page 5)

*W.T. Bulkheads according approved  
plan 8<sup>th</sup> May 1939.  
All stiffeners welded to bulkheads.*

## WATERTIGHT DOORS.

State particulars, which do not appear on reference Plans, of Watertight Doors, where situated, Type, where controlled from, Makers, Buttresses at Sides of Doors; particulars of Testing.

State whether particulars not given are in accordance with approved Plans.

State name of approved Plans and date of approval.



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## WATERTIGHT BULKHEADS—TESTING.

State particulars and dates of tests of Watertight Bulkheads.

Forepeak bulkhead tested, when testing  
forepeak 26-2-40 A.  
Engine room bulkhead hose tested  
14-3-40 MD and 29-3-40 S  
Aft peak bulkhead tested, when testing  
aft peak 22-12-39 MD.

## WATERTIGHT BULKHEADS—TESTING—Continued.



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## PANTING ARRANGEMENTS (OUTSIDE PEAKS).

State Particulars, which do not appear on reference Plans, illustrated by Sketches of Construction, of Scantling Arrangements, Heights of End Floors; Panting Beams and Stringers; Pillars; Shell Lugs on Stringers and Flats; Attachments of Stiffeners and Framing to Stringers.

State whether particulars not given are in accordance with approved Plans.

State name of approved Plans and date of approval.

## PANTING ARRANGEMENTS—Continued.



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## SHELL PLATING.

State particulars, which do not appear on reference Plans, of number of Strakes of Plating, average Length and Width Amidships; Thickness of Side Plating Amidships and at Ends; Bottom Plating Amidships, Ends, and Flat of Floor Forward; End Connections; Seam Connections; Construction at Breaks of Erections; Compensation in way of Cargo Doors, Sidelights and other Openings; Doublings where fitted; Forefoot Plate, After Hood Plating, Boss Plating; Sheerstrakes, Topside Plating, Garboard Strakes with Bar Keels; Gunwale Angles and Mouldings.

State whether particulars not given are in accordance with approved Plans.

State name of approved Plans and date of approval.

*Shellplating according approved  
plan 8<sup>th</sup> May 1939*

## SHELL PLATING—Continued.



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## DECKS.

State particulars, which do not appear on reference Plans, of which Decks are Weather Decks, Freeboard Decks, Second, Third, &c., and Platform Decks; Scantlings of Plating and Areas in square inches of Plating abreast Machinery Openings, Hatches Amidships and at Ends; Stringer Plates Amidships and at Ends; End Connections and Seam Riveting in each case; Doublings at Hatch Corners; Size of Corner Angles; Wood Sheathing and Deck Compositions; Watertight Cement Chocks on Freeboard Deck, whether Chocks are fitted in other Decks, and particulars of all Chocks fitted in each Deck and Flat; Rusted Iron Chocks, W.T. Collars, Coaming Angles and Mast Collars; Riveting of Coaming Angles, Gutter Angles, Chock Angles, and particulars of Water Testing of Decks.

State whether particulars not given are in accordance with approved Plans.

State name of approved Plans and date of approval.

Decks, according approved plan  
8<sup>th</sup> May 1939  
Hatched 4-3-40 MD

## DECKS—Continued.



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## CEILING AND SPARRING.

State particulars, which do not appear on reference Plans, of Close Ceiling and how fastened in Holds and Bunkers; if Tank Top Ceiled where Double Bottom is used for Oil Fuel; Sparring and how fastened in Holds, 'Tween Decks; Manhole Covers, and Protection.

State whether particulars not given are in accordance with approved Plans.

State name of approved Plans and date of approval.

*Ceiling in hold, fir 50<sup>m</sup> on battens  
30 m. m. thick.  
Sparring in hold, fir 170 x 65 m. m. ± 400 m. m.  
apart, felled with hooks to the  
frames.  
Manhole covers, steel plates and  
protected by wooden covers.*

## MATCHED SUPERSTRUCTURES.

State particulars, which do not appear on reference Plans or L.L. 4 D. Form:— 1st Superstructure, Length and Height ; 2nd Superstructure, Length and Height ; illustrate by Sketches of Cross Section through Superstructures; Coaming and Top Angles; Plating Amidships, at Ends; Riveting of Seams; Doublings at Windows and Doorways; Top Plating; Stiffening; Beams; Web Plates and Partial Bulkheads; Breaks in continuity; and Bulkheads at End of Erections on Freeboard Deck.

State whether particulars not given are in accordance with approved Plans.

State name of approved Plans and date of approval.

*See LL 4 D form.*



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## SUPERSTRUCTURES—Continued.

*[Faint, illegible handwritten text, likely bleed-through from the reverse side of the page.]*

## HATCHWAYS AND OTHER DECK OPENINGS.

State particulars, which do not appear on reference Plans or L.L. 4 D. Form, of Dimensions of Openings in different Decks ; Scantlings of Coamings ; Coaming Angles ; Side Stiffeners ; Stays ; Spacing and Scantlings of Hatch Webs ; Hatch Covers ; Details of Hatch Corner Construction ; Mast Openings ; Engine and Boiler Openings, and Casings and Companion Ways.

State whether particulars not given are in accordance with approved Plans.

State name of approved Plans and date of approval.

Hatchways. as per approved plan  
8<sup>th</sup> May 1940.



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## DECK OPENINGS—Continued.

## MACHINERY SPACE AND TUNNEL.

State particulars, which do not appear on reference Plans, of Through Beams and Stanchions in Machinery Space; Engine Seating; Thrust Seating; Boiler Stools; Thrust Stools; Bossing Arrangements; Scantlings of Stiffeners; Plating and Coaming Angles of Tunnels and Tunnel Recesses; Escape Hatches; Stiffening of Tunnels under Stanchions; and particulars and dates of Water Testing Tunnels.

State whether particulars not given are in accordance with approved Plans.

State name of approved Plans and date of approval.

Machinery space, as per approved  
plan 8<sup>th</sup> May 1939.  
as per approved plan  
Engine seating. 27.7.39.



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## RIVETING AND CAULKING.

All riveting and caulking according to rule requirements. All rivets delivered with B.C. certificates.

## ELECTRIC WELDING.

State particulars of Electrodes, Manufacturers, sizes of Electrodes, Voltage, Amperage, Rates of Deposit, &c., arrangements for skilled supervision of work in the Yard; Particulars of Tests, including Samples of work in Yard.

Portions of Structure where Electric Welding used, Thickness of Material Welded, Size and Types of Welds, Angles of Edges and Clearance of Base in Butt Welds, Depth and Width of Lap Welds, and Connections of Plates and Bars.

Electrodes used: Philips 48-50 in various diameters as required.

Centre Girder to keelstake and to Underbottomplating.

Sidegirder to bottomplating.

Stiffeners to bulkheadplating.

Strops to Centre Girder, to marginplate

Stanchions to hatchcoamings.

All welding with required amperage and diameter of electrodes.



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## ELECTRIC WELDING—Continued.

## BULWARKS, PORTS, SCUPPERS, ETC.

State particulars, which do not appear on reference Plans or L.L. 4 D. Form, of Length and Height of Bulwarks; Freeing Port Area; Construction of Freeing Ports; Details of Gangway Doors, Scuppers from Watertight Decks; Soil Pipe Elbows below Freeboard Deck.

State whether particulars not given are in accordance with approved Plans.

State name of approved Plans and date of approval.

See LL 4 D form.



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## BULWARKS, PORTS, SCUPPERS, ETC.—Continued

## VENTILATORS AND SIDE SCUTTLES.

State particulars, which do not appear on reference Plans or L.L. 4 D. Form, of Coaming Heights; Thicknesses; Deck Connections of Hold Ventilators on Weather Portions of Freeboard Decks; Bridge Decks; Forecastle and Poop Decks; Ventilators to Holds and Tunnels and Side Scuttles in Tween Decks; means of Closing.

State whether particulars not given are in accordance with approved Plans.

State name of approved Plans and date of approval.

*See L.L. 4 D form.*



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## VENTILATORS AND SIDE SCUTTLES—Continued.

## PUMPING ARRANGEMENTS.

State particulars, which do not appear on reference Plans, of Hand Pumps or Power Pumps and from which Deck they are operated; Hand Pump to Fore Peak, Drain Boxes and Tank Tops; Sounding Pipes, Testing of Pumps.

Are the Chambers of the Plunger Pipes Copper? *Semi rotary pumps*

Is a Plate fitted under the Lower End of each Sounding Pipe? *Yes.*

Are Pump Chambers, Tail Pipes, and Rods protected by substantial Casings? *Yes.*

State whether particulars not given are in accordance with approved Plans.

State name of approved Plans and date of approval.

*Pumping arrangement as per approved plans: dated 16-9-39.*



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## CEMENTING AND PAINTING.

State if and where Portland or Bituminous Cement is used and how it is applied.

State particulars and Composition of Cement, Cement Wash, Paint, or Bitumen, in Tanks and elsewhere.

Double Bottom internally: cylinder oil  
 Tanktop: tar with sprayed cement  
 Forepeak: cylinder oil  
 Afterpeak: cement wash  
 Freshwatertank: cement wash  
 Forepeak tanktop: tar with sprayed cement  
 Afterpeak tanktop: tar with sprayed cement.  
 Hold: oil paint 2x.  
 Shell: bottom tar 2x  
       sides Oil paint 2x  
 Deck: Black varnish.  
 Coamings, deckhouses,  
 bulwark etc.: Oil paint 2x

## MASTS, SPARS, AND RIGGING.

Steam Vessels.—State particulars, which do not appear on reference Plans, as to Heights, Diameters, and

Scantlings of Masts; Derrick Loads and Outreaches; Scantlings and arrangements of Derrick Tables and Outriggers.

Sailing Vessels.—The same particulars as for Steam Vessels, where applicable, also particulars of Rigging,

details of Canvas and Sail Area.

State whether particulars not given are in accordance with approved Plans.

State name of approved Plans and date of approval.

One mast, height above deck 11.55 M.  
 hinged.  $\phi$  457/10 mm -  $\phi$  160/7 mm.  
 Two derricks for 5 ton each long  
 10.35 M and  $\phi$  241/5 mm.

The loading and discharging gear have  
 been tested by the Dutch Harbour  
 Inspection in accordance with  
 the requirements.



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## EQUIPMENT.—STEAM

State Equipment Numbers and corresponding Letter for Register Book.

Chain Cables, Stream Chains, Wires, &c.—State particulars of number of Certificates, where and when Tested, Length, Size, Weight, and Maker's Name.

Anchors.—State number of Certificates, where and when Tested, Weight of Head Shank and Stock, and Maker's Name and Type of Anchor.

Steering Gear.—Plans or Sketches showing arrangement and details of Steering Gear, including Auxiliary Gear, to be given, to include Diameter of Chains and Rods; Diameter and Scantlings of Quadrant; Diameter, Scantlings and Attachments of Quarter and Leading Blocks, Buffer Springs and Stretching Screws; Type and Make of Steering Gear and Control; Particulars of Relieving Tackle, Brakes, &c.; Particulars of Test Certificates for Chains, Rods, Stretching Screws, Buffer Springs, Spare Links, Shackles, &c.; state Spares provided; Particulars of Trials.

Windlass and Capstan.—State particulars of Type and Maker's Name and if satisfactory under trial.

Winches.—State Number, Size, and Type fitted.

Lifeboats.—Number and Dimensions.

## C. 16

N<sup>o</sup> of certificate 391.  
 Tested at N.Y. Anker-*Kettingfabrik* "Schiedam"  
 Total length of chain 11 x 15 fathoms  
 Size of chain " "  
 Weight of chain 4260 kg.  
 N<sup>o</sup> of shackles 11 joining 4 end.  
 Length of link 16" Breadth of ditto 3 7/8"  
 Tensile strain applied 18 tons  
 Breaking strain applied to 3 links cut out  
 of every 15 fathoms 27 tons  
 Marks: B.C. Test A.K.S. 9-1-40 J.A.  
 Maker's Name: N.Y. Anker-*Kettingfabrik* "Schiedam"

Wires according Rules, and delivered  
 with certificate of makers.

## EQUIPMENT—Continued.

N <sup>o</sup> of certificate	332	333	334	335
Tested at	Schiedam	Schiedam	Schiedam	Schiedam
Weight of anchor (cast)	464 kg.	465 kg.	166 kg.	81 kg.
Weight of iron stock	—	—	41 kg.	20 kg.
Length of shank	3'-9 1/2"	3'-10"	5'-1 1/2"	4'-3"
Length of arm	2'-5 1/2"	2'-5 1/2"	2'-4 1/2"	1'-9 1/2"
Diam. of shank	4 1/2" x 3 7/8"	4 3/4" x 3 7/8"	3 13/16 x 2 5/8"	3" x 2 1/8"
Description	Half type	Half type	Stock Shown	Stock Keyp.
Proof strain applied	11.9 tons	11.9 tons	5.8 tons	3.9 tons
Maker's name	N.Y. Anker- <i>Kettingfabrik</i>	N.Y. Anker- <i>Kettingfabrik</i>	Schiedam	Schiedam
Marks	B.C. Test A.K.S.	9-1-40	J.A.	B.C. Test 9-1-40 J.A.
Anchor head marked	Cast steel	Cast steel		
	E' 318 kg. N <sup>o</sup> 26 2.3-39	E' 319 kg. N <sup>o</sup> 25 2.3-39		
	C.I.	C.Y.		

## EQUIPMENT—Continued.

Steering gear: Makers Bodewes Fochol.  
English patent hand steering gear  
from wheelhouse to Quadrant  
by 2" steering rod and Gild  
chain.

Emergency tackle have been  
provided.

Windlass: Makers Bodewes Fochol for  
1" chain cable, driven by  
8 H.P. lister motor. Tried  
on trial trip and found in  
order.

Capstan Hand capstan made by  
Bodewes Fochol

Winches 2, 3 tons (5 ton) winches made  
by Bodewes Fochol and driven  
by 7-8 H.P. lister motor.

Lifboats 5B and 5S one  
4.83 x 1.75 x 0.74 13 Pers.  
4.82 x 1.78 x 0.73 13 pers.  
both with copper awnings  
and approved by Dutch  
Shipping inspection

## DEEP TANKS, OIL TANKS, AND OIL BUNKERS.

State particulars, which do not appear on reference Plans, of Position and Arrangement; Scantlings of  
Plating, Stiffeners, Deck Girders, Wash Bulkheads and Plates; Top Plating; Frame Connections; Means  
to prevent Overloading; Height of Filling, Air and Sounding Pipes; in the case of **Oil Tanks**, give  
Density and Flash Points of Oils; Arrangements of Expansion Trunks, Cofferdams, and details of  
Ventilation; state Particulars of Packing used.

State Arrangements of Pump Rooms, means of keeping Low Flash Point Oil separate from other Oil, and  
provisions made where Low Flash Point Oils are used for Oil Fuel.

State whether particulars not given are in accordance with approved Plans.

State name of approved Plans and date of approval.

As per approved Construction  
plan 8<sup>th</sup> May 1939.



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DEEP TANKS, OIL TANKS, AND OIL BUNKERS—Continued.

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DEEP TANKS, OIL TANKS, AND OIL BUNKERS—Continued.

*[Faint, mostly illegible handwritten notes and bleed-through from the reverse side of the page.]*



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## DEEP TANKS, OIL TANKS, AND OIL BUNKERS—Continued.

Test Head above Top of Tank.	Deflection at Full Tank.	Deflection with Test Head.	Date.	Initials.
------------------------------------	--------------------------------	----------------------------------	-------	-----------

No. 1 Tank, Port, Tested and found satisfactory.

"	Starb'd,	"	"	
2	Port,	"	"	
"	Starb'd,	"	"	
3	Port,	"	"	
"	Starb'd,	"	"	
4	Port,	"	"	
"	Starb'd,	"	"	
5	Port,	"	"	
"	Starb'd,	"	"	
6	Port,	"	"	
"	Starb'd,	"	"	
7	Port,	"	"	
"	Starb'd,	"	"	
8	Port,	"	"	
"	Starb'd,	"	"	
9	Port,	"	"	
"	Starb'd,	"	"	
10	Port,	"	"	
"	Starb'd,	"	"	
11	Port,	"	"	
"	Starb'd,	"	"	
12	Port,	"	"	
"	Starb'd,	"	"	

*MD to Surfdeck. 14-12-39 MD*

## DEEP TANKS, OIL TANKS, AND OIL BUNKERS—Continued.

State which Tanks are used as Oil Fuel Bunkers.

Give position and size of Air Pipes or Ventilators from each Tank.



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Give dates of visits also notes of any occurrence of which a record should be kept.

- 22-6-39 S. Discussed items in connection  
letter 19-6-39.
- 14-7-39 A Bottom plating laid. P.S. floors 20-55  
erected.
- 22-7-39 A Verified thicknesses and keel marks  
All floors in place.
- 24-7-39 A Stamped keel pieces keel plates and  
hanktop plates.
- 27-7-39 S. Tested material keel plates and  
hanktop plates. Sulphur prints made.
- 1-8-39 S. Discussed proposed docking keel  
examined progress of work.
- 15-8-39 S. Awaiting material. Examined  
progress of work.
- 25-8-39 S. Examined work in hand.
- 20-9-39 A Double bottom ready for testing  
Engine floors in girders in place.  
Frames erected 0-20. Aft. bulkhead  
and oil bunker bld. frame 9 erected  
with hankdeck.
- 18-10-39 A Stern frame, frames, side plating,  
motor foundation and lower deck  
all erected up to engineroom bld.
- 14-11-39 A. R.Q. deck in place with centre line  
bulkheads, frames up to 56
- 27-11-39 A Examined progress of work
- 14-12-39 D Examined drawing in of stern tube  
Tested O.F. bunker and A.P. fresh  
watertank
- 20-12-39 A. Vessel all plated. Decks and  
hatches in place, except f.c. deck.

- 22-12-39 D Tested afterpeak tank
- 12-2-40 A Intern. Lt. Survey Steelwork all  
completed
- 26-2-40 A Tested d.b.t. 3 S.B., 1 P.S. and  
forepeak tank.
- 28-2-40 D Tested d.b.t. 3 P.S. and 1 S.B.
- 29-2-40 A " " " " 2 S.B. and 2 P.S.  
separately
- 4-3-40 D Those tested bulkheads, decks  
and hatch coamings  
haunched.
- 7-3-40 A
- 20-3-40 D Main motor in place  
Tested starting air pipes  
and ballast pump.
- 27-3-40 A Trial trip, tried anchor and  
D stern gear.
- 29-3-40 S. Gathered particulars for hull report  
by book, tested bit pipe line  
hoisted S. Bld., checked foreboard  
marks.



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## SURVEYORS' NOTES—Continued.

*[Faint, illegible handwritten notes in pencil, covering the majority of the page.]*

## REFRIGERATION.

State particulars of Arrangement, Makers, and Survey of Refrigerating Plant.

State extent, particulars, illustrated by Sketches of Insulation.



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## REFRIGERATION—Continued.

## REFRIGERATION—Continued.



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## LOAD LINE PARTICULARS WHERE

Registered Length	Breadth	Depth
Length on L.W.L.	Beam at Gunwale Amidships	
Moulded Depth as measured in Ship		
Round of Beam	Rise of Floor	
Sheer at Stem	Sheer at Sternpost	
„ $\frac{1}{8}$ from Stem	„ $\frac{1}{8}$ from Sternpost	
Particulars of Sheer in Decks which are not parallel to Freeboard Deck		
Fall in Sheer	Thickness of Wood Deck	
Extent of Wood Deck	Thickness of Ceiling	
Thickness of Sparring	Depth of Framing	
Drop in Tank Level	Modifications in D.B. affecting Coef. (see Sketch).	
Particulars of Erections (see Sketch)		
Length	Length of Overhang (Recesses, &c.)	Height
Forecastle		
Poop or R.Q.D.		

Bridge

Scantlings of Bulkheads of Erections

Openings in Bulkheads of Erections and Means of Closing same

Are the Engine and Boiler Openings covered by the Poop or R.Q.D. and enclosed by a strong Iron or Steel House?

Give Number, Size, and Area of Freeing Ports in Wells

## LOAD LINE PARTICULARS NOT STATED ON L.L.4.D. FORM.

Displacement in Salt Water	Tons per inch
Tonnage under	Deck
Means of making Freeboard Deck watertight in erections where Frames pass through	
Freeboard assigned by the Committee, as per letter issued by Secretary dated	
From Top of Statutory Deck Line to Centre of Disc	
Fresh Water Line above Centre of Disc	
Indian Summer	„ „
Winter Line below Centre of Disc	
W.N.A.	„ „
Statutory Deck Line	ins. above Top of Wood/Iron Deck at Side
Freeboard marks verified :-	

Freeboard as assigned above subject to :-



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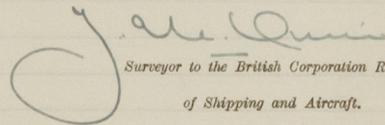
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## LOAD LINE PARTICULARS—Continued.

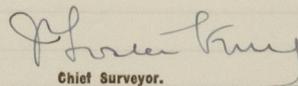
Elevation and Plan Sketches showing Lengths and Arrangements of Erections, Length, Heights and variations of Double Bottom, Peak Tanks, Protection of Openings in Bulkheads, if not stated on L.L. 4 D. Form.

I ~~We~~ have satisfied myself, ~~ourselves~~, from personal examination, that this Ship has been built in accordance with the approved Plans and the Rule requirements, or their equivalent, that the materials used in the construction of the Hull and Equipment are in accordance with the Rules, and that the workmanship is in every respect satisfactory.

Rotterdam, 2-4-40.

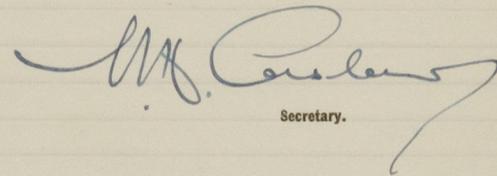
  
 Surveyor to the British Corporation Register  
 of Shipping and Aircraft.

It is submitted that this Report be approved.

  
 Chief Surveyor.

3 JUL 1940

Approved by the Committee for the Class of BS\* on the 3<sup>rd</sup> July 1940

  
 Secretary.



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