

No. 2127

THE BRITISH CORPORATION FOR THE SURVEY
AND
REGISTRY OF SHIPPING.

Report No. *1948* No. in Register Book *3275*

S.S. *"TETELA"*

Makers of Engines *Cammell Laird & Co. Ltd.*

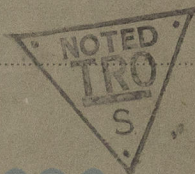
Works No. *918*

Makers of Main Boilers *Cammell Laird & Co. Ltd.*

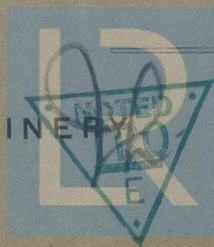
Works No. *918*

Makers of Donkey Boiler ☒

Works No. ☒



MACHINERY



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Foundation *897*

003311-003320-0168

No.

THE BRITISH CORPORATION FOR THE SURVEY
AND
REGISTRY OF SHIPPING.

Report No. 1968 No. in Register Book 3275

Received at Head Office

26th April 1926

Surveyor's Report on the New Engines, Boilers, and Auxiliary
Machinery of the ~~Single Triple~~ Twin Quadruple Screw S/S "TETELA"

Official No. 147364 Port of Registry Liverpool.

Registered Owners Messrs Elder & Topples Ltd.

31-32 Bow Street, Covent Garden, London.

Engines Built by Cammell Laird & Co., Ltd.

at Birkenhead.

Main Boilers Built by Cammell Laird & Co., Ltd.

at Birkenhead.

Donkey " "

at

Date of Completion 12th April 1926.

First Visit 18th 6/25 Last Visit 12th 4/26. Total Visits 86

*The particulars of this Vessel are similar
to the S/S CASANARE, Cammell Laird & Co. Ltd. No 8997
unless otherwise stated herein.*

RECIPROCATING ENGINES.

Works No. *918* No. of Sets *One* Description *Inverted Triple expansion. Surface condensing.*

No. of Cylinders each Engine *Three* No. of Cranks *Three.*

Diams. of Cylinders *27½" - 46½" - 78"* Stroke *54"*

Cubic feet in each L.P. Cylinder *149.3*

Are Spring-loaded Relief Valves fitted to Top and Bottom of each Cylr? *Yes*

" " " each Receiver? *Yes.*

Type of H.P. Valves, *Piston valve*

" 1st I.P. " *Box type (Andrew & Cameron)*

" 2nd I.P. " *✓*

" L.P. " *D Slide Valve (Double ported)*

" Valve Gear *Stephenson's link motion*

" Condenser *Surface*

Cooling Surface *35-70* sq. ft.

Diameter of Piston Rods (plain part)

Screwed part (bottom of thread)

Material "

Diam. of Connecting Rods (smallest part)

Material

" Crosshead Gudgeons

Length of Bearing

Material

No. of Crosshead Bolts (each)

Diam. over Thrd.

Thrds. per inch

Material

" Crank Pin " "

"

"

"

" Main Bearings

Lengths

" Bolts in each

Diam. over Thread

Threads per inch

Material

" Holding Down Bolts, each Engine

Diam.

No. of Metal Checks

Are the Engines bolted to the Tank Top or to a Built Seat?

Are the Bolts tapped through the Tank Top and fitted with Nuts Inside?

If not, how are they fitted?

Connecting Rods, Forged by *Bammell Laird & Co Ltd Sheffield*

Piston " " *do do do do*

Crossheads, *do do do do*

Connecting Rods, Finished by *do do do Birkenhead.*

Piston " " *do do do do*

Crossheads, " *do do do do*

Date of Harbour Trial *17th/2/26*

" Trial Trip *12th/4/26*

Trials run at *Liverpool to Holyhead.*

Were the Engines tested to full power under Sea-going conditions? *Yes*

If so, what was the I.H.P.?

4600

Revs. per min.

88

Pressure in 1st I.P. Receiver,

80

lbs., 2nd I.P.,

✓

lbs., L.P.,

17

lbs., Vacuum,

26.7 ins.

Speed on Trial

15 Knots.

If the Conditions on Trial were such that full power records were not obtained give the following estimated

data:—

Builders' estimated I.H.P.

Revs. per min.

Estimated Speed



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TURBINE ENGINES.

Works No.	Type of Turbines		
No. of H.P. Turbines	No. of I.P.	No. of L.P.	No. of Astern

Are the Propeller Shafts driven direct by the Turbines or through Gearing?

Is Single or Double Reduction Gear employed?

Diar. of 1st Reduction Pinion	}	Width	Pitch of Teeth
" 1st " Wheel			

Estimated Pressure per lineal inch

Diar. of 2nd Reduction Pinion	}	Width	Pitch of Teeth
" 2nd " Wheel			

Estimated Pressure per lineal inch

Revs. per min. of H.P. Turbines at Full Power S.H.P.

" " I.P. " "	
" " L.P. " "	
" " 1st Reduction Shaft	
" " 2nd " "	
" " Propeller Shaft	

Total Shaft Horse Power

Date of Harbour Trial

" Trial Trip

Trials run at

Speed on Trial	Knots.	Propeller Revs. per min.	S.H.P.
----------------	--------	--------------------------	--------

Turbine Spindles forged by

" Wheels forged or cast by

Reduction Gear Shafts forged by

" Wheels forged or cast by

DESCRIPTION OF INSTALLATION.

No. of Turbo-Generators	Capacity of each
Type of Turbines employed	Description of Generators

No. of Motors driving Propeller Shafts	
Are the Propeller Shafts driven direct by the Motors or through Gearing?	
Is Single or Double Reduction Gear employed?	

Description of Motors

Diar. of 1st Reduction Pinion	}	Width	Pitch of Teeth
" 1st " Wheel			
Diar. of 2nd Reduction Pinion	}	Width	Pitch of Teeth
" 2nd " Wheel			

Estimated Pressure per lineal inch

Revs. per min. of Generators at Full Power

Total Shaft Horse Power

Date of Harbour Trial

" Trial Trip

Trials run at

Speed on Trial	Knots.	Propeller Revs. per min.	S.H.P.
----------------	--------	--------------------------	--------



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TURBO-ELECTRIC PROPELLING MACHINERY.

No. of Turbo-Generating Sets Capacity of each

Type of Turbines employed

Description of Generators

No. of Motors driving Propeller Shafting

Are the Propeller Shafts driven direct by the Motors or through Gearing?

Is Single or Double Reduction Gear employed?

Description of Motors

Diam. of 1st Reduction Pinion

Width

Pitch of Teeth

" 1st " Wheel

Estimated Pressure per lineal inch

Diam. of 2nd Reduction Pinion

Width

Pitch of Teeth

" 2nd " Wheel

Estimated Pressure per lineal inch

Revs. per min. of Generators at Full Power

" Motors "

" 1st Reduction Shaft

" 2nd "

" Propellers at Full Power

Total Shaft Horse Power

Date of Harbour Trial

" Trial Trip

Trials run at

Speed on Trial

Knots. Propeller Revs. per min.

S.H.P.

Makers of Turbines

Generators

Motors

Reduction Gear

Turbine Spindles forged by

Wheels forged or cast by

Reduction Gear Shafts forged by

Wheels forged or cast by

DESCRIPTION OF INSTALLATION.

Type of Thrust Hooks

No. of Hooks

Diam. of Thrust Shafts at bottom of Collars

Forward Coupling

No. of Hooks each Coupling

Diam. at Mid Length

Diam. at End Length

Diam. of Propeller Shafts by Hole

Actual

Are Propeller Shafts fitted with Continuous Brass Liners?

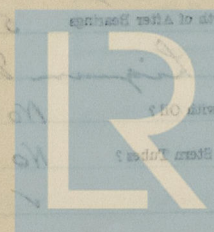
Diam. over Liners

Of what Material are the After Bearings composed?

Are Means provided for lubricating the After Bearings with Oil?

To prevent the Water entering the After Bearings?

If so, what Type is adopted?



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SHAFTING.

Are the Crank Shafts Built or Solid?

Built

No. of Lengths in each

Three

Angle of Cranks

120°

Diar. by Rule

15.33

Actual

16 1/8"

In Way of Webs

16 3/8"

" of Crank Pins

16 1/8"

Length between Webs

17 1/4"

Greatest Width of Crank Webs

31 1/4"

Thickness

10 1/4"

Least

"

30 1/8"

"

*10 1/4"*Diar. of *Dowels* in Crank Webs*Two 2" Dia.*

Length

8"

" Dowels in Crank Pins

One 2" Length 7 1/4"

Screwed or Plain

Plain

No. of Bolts each Coupling

6

Diar. at Mid Length

3 7/8"

Diar. of Pitch Circle

23 1/4"

Greatest Distance from Edge of Main Bearing to Crank Web

1/2"

Type of Thrust Blocks

Mitchell

No.

" Rings

One ahead & one astern

Diar. of Thrust Shafts at bottom of Collars

16 1/8"

No. of Collars

One

"

"

Forward Coupling

15 3/8"

At Aft Coupling

15 3/8"

Diar. of Intermediate Shafting by Rule

14.56

Actual

15 3/8"

No. of Lengths

Five

No. of Bolts, each Coupling

6

Diar. at Mid Length

3 7/8"

Diar. of Pitch Circle

23 1/4"

Diar. of Propeller Shafts by Rule

16.02

Actual

16 3/8"

At Couplings

15 3/8"

Are Propeller Shafts fitted with Continuous Brass Liners?

No

Diar. over Liners

18 1/2"

Length of After Bearings

5'-9 1/2"

Of what Material are the After Bearings composed?

Lignum Vitae

Are Means provided for lubricating the After Bearings with Oil?

No

"

"

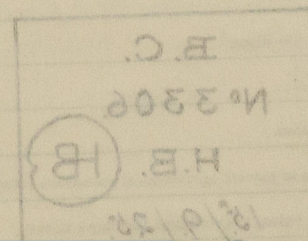
to prevent Sea Water entering the Stern Tubes?

No

If so, what Type is adopted?

✓

SKETCH OF CRANK SHAFT.



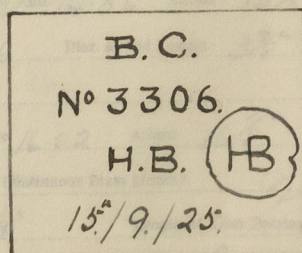
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No. of Blades each Propeller *Four* Fitted or Solid? *Fitted*
 Material of Blades *Bronze* Boss *Cast Iron*
 Diam. of Propellers *17'-6"* Pitch *19'-0"* Surface (each *100* S. ft.
 Coefficient of Displacement of Vessel at $\frac{1}{2}$ Moulded Depth *.689*

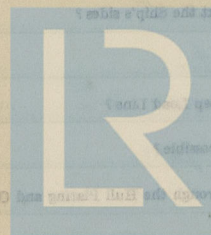
Crank Shafts Forged by *315* Material *315*
 " Pins " *315* " *315*
 " Webs " *315* " *315*
 Thrust Shafts " *315* " *315*
 Intermed. " *315* " *315*
 Propeller " *315* " *315*
 Crank " Finished by *315*
 Thrust " *315* " *315*
 Intermed. " *315* " *315*
 Propeller " *315* " *315*

STAMP MARKS ON SHAFTS.



SKETCH OF PROPELLER SHAFT.

No. of Air Pumps
 Worked by Main or Independent Engines?
 No. of Circulating Pumps
 Type of
 Section from Sea
 Has each Pump a Rigid Section with Non-return Valve?
 What other Pumps can circulate through Condenser?
 No. of Feed Pumps on Main Engines
 Are Spring-loaded Relief Valves fitted to each Pump?
 Can one Pump be overhauled while the others are at work?
 No. of Independent Feed Pumps
 What other Pumps can feed the Boilers?
 No. of Bilge Pumps on Main Engines
 Can one Pump be overhauled while the others are at work?
 No. of Independent Bilge Pumps
 What other Pumps can draw from the Bilges?
 Are all Bilge Pumps fitted with Hoses?
 Are the Valves etc., so arranged as to prevent unintentional connection between Sea and Bilges?
 Are all Sea Connections made with Valves or cocks next the ship's side?
 Are they placed so as to be easily accessible?
 Are the Discharge Cocks placed above or below the Deck level?
 Are they fitted with the Ball Valve and easily accessible?
 Are all Bilge Cocks or Valves fitted with the Ball Valve and easily accessible?
 Are all Bilge Cocks or Valves fitted with the Ball Valve and easily accessible?



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PUMPS, ETC.

No. of Air Pumps Diar. Stroke

Worked by Main or Independent Engines?

No. of Circulating Pumps Diar. Stroke

Type of "

Diar. of " Suction from Sea

Has each Pump a Bilge Suction with Non-return Valve? Diar.

What other Pumps can circulate through Condenser?

No. of Feed Pumps on Main Engine Diar. Stroke

Are Spring-loaded Relief Valves fitted to each Pump?

Can one Pump be overhauled while the others are at work?

No. of Independent Feed Pumps Diar. Stroke

What other Pumps can feed the Boilers?

No. of Bilge Pumps on Main Engine Diar. Stroke

Can one Pump be overhauled while the others are at work?

No. of Independent Bilge Pumps

What other Pumps can draw from the Bilges?

Are all Bilge Suctions fitted with Roses?

Are the Valves, etc., so arranged as to prevent unintentional connection between Sea and Bilges?

Are all Sea Connections made with Valves or Cocks next the Ship's sides?

Are they placed so as to be easily accessible?

Are the Discharge Chests placed above or below the Deep Load Line?

Are they fitted direct to the Hull Plating and easily accessible?

Are all Blow-off Cocks or Valves fitted with Spigots through the Hull Plating and Covering Plates or Flanges on the Outside?

BOILERS

I. H. M. IV

p/8

Works No.

No. of Boilers

Single or Double ended

No. of Furnaces in each

Type of Furnaces

Date when first approved

Approved Working Pressure

Hydraulic Test Pressure

Date of Hydraulic Test

when safety Valves set

Pressure at which Valves were set

Date of Accumulation Test

Maximum Pressure under Accumulation Test

System of Drafting

Can Boilers be worked separately?

History of Failure

Remarks

Remarks

Remarks

Remarks

Remarks

Remarks

Remarks

Remarks

Remarks

Remarks

Remarks

Remarks



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BOILERS.

Works No. *918* *I. II. III. IV.*

No. of Boilers *Four* Type *Multitubular circular return tube*

Single or Double-ended *Single*

No. of Furnaces in each *Four*

Type of Furnaces *Seighlon (Withdrawable)*

Date when Plan approved *2/7/25 (See H.O. letter)*

Approved Working Pressure *210 lbs^o*

Hydraulic Test Pressure *365 lbs^o*

Date of Hydraulic Test *I 28/10/25. II 12/11/25. III 19/11/25. IV 15/2/25.*

„ when Safety Valves set *17/2/26.*

Pressure at which Valves were set *215 lbs^o*

Date of Accumulation Test *17/2/26*

Maximum Pressure under Accumulation Test *220 lbs^o*

System of Draught *Howden's Forced (blowed ashpit)*

Can Boilers be worked separately? *Yes*

Makers of Plates *D. Colville & Sons Ltd. & J. Spence & Sons Ltd.*

„ Stay Bars *N. Hingley & Sons Ltd & Parkgate & S. Co. Ltd.*

„ Rivets *The Rivet Bolt & Nut Co. Ltd. Glasgow.*

„ Furnaces *The Leeds Forge Co. Ltd.*

Greatest Internal Diam. of Boilers *16'-0"*

„ „ Length „ *11'-9"*

Square Feet of Heating Surface each Boiler *2900^{ft}*

„ „ Grate „ „ *71^{ft}*

No. of Safety Valves each Boiler *Two* Rule Diam. *2³/₄"* Actual *2³/₄"*

Are the Safety Valves fitted with Easing Gear? *Yes*

No. of Pressure Gauges, each Boiler *One* No. of Water Gauges *Two*

„ Test Cocks „ *✓* „ „ Salinometer Cocks *One*



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Are the Water Gauges fitted direct to the Boiler Shells or mounted on Pillars?

*On pillars
Front & fitted with pipes
Back & to shell direct*

Are the Water Gauge Pillars fitted direct to the Boiler Shells or connected by Pipes?

Are these Pipes connected to Boilers by Cocks or Valves?

bocks

Are Blow-off Cocks or Valves fitted on Boiler Shells?

Valves

No. of Strakes of Shell Plating in each Boiler

Plates in each Strake

Thickness of Shell Plates Approved

in Boilers

Are the Rivets Iron or Steel?

Are the Longitudinal Seams Butt or Lap Joints?

Are the Butt Straps Single or Double?

Are the Double Butt Straps of equal width?

Thickness of outside Butt Straps

inside

Are Longitudinal Seams Hand or Machine Riveted?

Are they Single, Double, or Treble Riveted?

No. of Rivets in a Pitch

Diam. of Rivet Holes

Pitch

No. of Rows of Rivets in Centre Circumferential Seams

Are these Seams Hand or Machine Riveted?

Diam. of Rivet Holes

Pitch

No. of Rows of Rivets in Front End Circumferential Seams

Are these Seams Hand or Machine riveted?

Diam. of Rivet Holes

Pitch

No. of Rows of Rivets in Back End Circumferential Seams

Are these Seams Hand or Machine Riveted?

Diam. of Rivet Holes

Pitch

Size of Manholes in Shell

Dimensions of Compensating Rings

Thickness of End Plates in Steam Space Approved

in Boilers

Pitch of Steam Space Seams

Diam. of Rivet Holes

in Boilers

Material of

How are Seams Riveted?

Diam. and Thickness of Loose Washers on End Plates

Riveted

Doubling Straps

Thickness of Middle Back End Plates Approved

in Boilers

Thickness of Doubling in White Spaces between Fireboxes

Pitch of Seams at

Diam. of Rivet Holes

in Boilers

Material of

Are Seams Riveted with Nuts outside?

Thickness of Back End Plates at Bottom Approved

in Boilers

Pitch of Seams at White Spaces between Fireboxes

Thickness of Doubling

Thickness of Front End Plates at Bottom Approved

in Boilers

No. of Longitudinal Seams in Spaces between Fireboxes



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Thickness of End Plates in Steam Space Approved

" " " " " in Boilers

Pitch of Steam Space Stays

Diar. " " " " Approved Threads per Inch

" " " " " in Boilers "

Material of " " "

How are Stays Secured? Approved

Diar. and Thickness of Loose Washers on End Plates

" " " " Riveted " " "

Width " " " Doubling Strips " "

Are the Ends of Stays Double?

Thickness of Middle Back End Plates Approved

" " " " " in Boilers

Thickness of Doublings in Wide Spaces between Fireboxes

Pitch of Stays at " " " " "

Diar. of Stays Approved Threads per Inch

" " " " in Boilers "

Material " " "

Are Stays fitted with Nuts outside?

Are the Ends of Stays Double?

Thickness of Back End Plates at Bottom Approved

" " " " " in Boilers

Pitch of Stays at Wide Spaces between Fireboxes

Thickness of Doublings in " "

Are the Ends of Stays Double?

Thickness of Front End Plates at Bottom Approved

" " " " " in Boilers

No. of Longitudinal Stays in Spaces between Furnaces

Threads per inch

Diagonal of Stays Approved

" " " " in Boilers

Material

Thickness of Front End Plates Approved

" " " " in Boilers

Pitch of Stay Tubes at Space between Stacks of Tubes

Thickness of Doublings in " "

Stay Tubes at " "

Are Stay Tubes fitted with Nuts at Front End?

Thickness of Back End Plates Approved

" " " " in Boilers

Pitch of Stay Tubes in Back Tube Plates

" " " " "

Thickness of Stay Tubes

" " " " "

External Diagonal of Tubes

Material

Thickness of Furnace Plates Approved

" " " " in Boilers

Smallest outside Diagonal of Furnace

Length between Tubes

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Diar. of Stays Approved Threads per Inch

" " in Boilers

Material " " in Boilers

Thickness of Front Tube Plates Approved

" " " " in Boilers

Pitch of Stay Tubes at Spaces between Stacks of Tubes

Thickness of Doublings in " " "

" Stay Tubes at " " "

Are Stay Tubes fitted with Nuts at Front End ?

Thickness of Back Tube Plates Approved

" " " in Boilers

Pitch of Stay Tubes in Back Tube Plates

" Plain "

Thickness of Stay Tubes

" Plain "

External Diar. of Tubes

Material " " in Boilers

Thickness of Furnace Plates Approved

" " " in Boilers

Smallest outside Diar. of Furnaces

Length between Tube Plates

Width of Combustion Chambers (Front to Back)

Thickness of " " Tops Approved

" " " in Boilers

Pitch of Screwed Stays in C.O. Tops

Threads per Inch

Diar. of Screwed Stays Approved

" " " in Boilers

Material " " in Boilers

Thickness of Combustion Chamber Sides Approved

" " " in Boilers

Pitch of Screwed Stays in C.O. Sides

Diar. " " Approved Threads per Inch

" " " in Boilers

Material " " in Boilers

Thickness of Combustion Chamber Backs Approved

" " " in Boilers

Pitch of Screwed Stays in C.O. Backs

Diar. " " Approved Threads per Inch

" " " in Boilers

Material " " in Boilers

Are all Screwed Stays fitted with Nuts inside C.O.?

Thickness of Combustion Chamber Bottoms

No. of Girders over each Wing Chamber

" " " " " " " " " " " "

Depth and Thickness of Girders

Material of Girders

No. of Stays in each

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Diar. of Screwed Stays Approved Threads per Inch

" " " in Boilers

Material " "

Thickness of Combustion Chamber Sides Approved

" " " in Boilers

Pitch of Screwed Stays in C.C. Sides

Diar. " " Approved Threads per Inch

" " " in Boilers

Material " "

Thickness of Combustion Chamber Backs Approved

" " " in Boilers

Pitch of Screwed Stays in C.C. Backs

Diar. " " Approved Threads per Inch

" " " in Boilers

Material " "

Are all Screwed Stays fitted with Nuts inside C.C.?

Thickness of Combustion Chamber Bottoms

No. of Girders over each Wing Chamber

" " " Centre "

Depth and Thickness of Girders

Material of Girders

No. of Stays in each

No. of Tubes, each Boiler

Size of Lower Manholes

VERTICAL DONKEY BOILERS

Type No. of Boilers

Greatest In. Diam.

Height of Boiler Crown above Fire Grate

Are Boiler Crown Flat or Dished?

Internal Radius of Dished Boilers

Description of Seams in Boiler Crown

Diam. of Flue Hole

Height of Firebox Crown above Fire Grate

Are Firebox Crown Flat or Dished?

Internal Radius of Dished Crown

No. of Crown Bars

External Diam. of Firebox at Top

Thickness

No. of Water Tubes

Material of Water Tubes

Size of Manhole in Shell

Description of Compensation High

Heating surface each Boiler

SUPERHEATERS

Description of Superheaters

Pressure

Water situated

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When Boilers are connected to Superheaters

Can Superheaters be shut off while Boilers are working?

No. of Safety Valves on each Superheater

Size of Safety Valve

Pressure on Valves



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VERTICAL DONKEY BOILERS.

No. of Boilers	Type		
Greatest Int. Diar.		Height	
Height of Boiler Crown above Fire Grate			
Are Boiler Crowns Flat or Dished?			
Internal Radius of Dished Ends		Thickness of Plates	
Description of Seams in Boiler Crowns			
Diarr. of Rivet Holes	Pitch	Width of Overlap	
Height of Firebox Crowns above Fire Grate			
Are Firebox Crowns Flat or Dished?			
External Radius of Dished Crowns		Thickness of Plates	
No. of Crown Stays	Diarr.	Material	
External Diarr. of Firebox at Top	Bottom	Thickness of Plates	
No. of Water Tubes	Ext. Diarr.	Thickness	
Material of Water Tubes			
Size of Manhole in Shell			
Dimensions of Compensating Ring			
Heating Surface, each Boiler		Grate Surface	

SUPERHEATERS.

Description of Superheaters

Where situated?

Which Boilers are connected to Superheaters?

Can Superheaters be shut off while Boilers are working?

No. of Safety Valves on each Superheater

Diarr.

Are " " fitted with Easing Gear?

Date of Hydraulic Test

Test Pressure

Date when Safety Valves set

Pressure on Valves

MAIN STEAM PIPES

No. of Pipes			
Material			
Welded or Seamed			
Internal Diarr.			
Thickness			
How are Flanges secured?			
Date of Hydraulic Test			
Test Pressure			



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MAIN STEAM PIPES.

No. of Lengths	One	Two	One	One
Material	Steel	Do	Do	Do
Brazed, Welded or Seamless	Seamless	Do	Do	Do
Internal Diam.	9½"	7"	7"	7"
Thickness	1/32"	1/32"	1/32"	1/32"
How are Flanges secured?	Screwed with vanishing thread	Do	Do	Do
Date of Hydraulic Test	4/2/26.	4/12/25	4/2/26	6/2/26
Test Pressure	630 lbs.	Do	Do	Do

No. of Lengths	Two	Two	Two	One
Material	Steel	Do	Do	Do
Brazed, Welded or Seamless	Seamless	Do	Do	Do
Internal Diam.	5½"	5½"	5½"	5½"
Thickness	1/4"	1/4"	1/4"	1/4"
How are Flanges secured?	Screwed with vanishing thread	Do	Do	Do
Date of Hydraulic Test	16/12/25	23/12/25	6/1/26	4/2/26
Test Pressure	630 lbs.	Do	Do	Do

No. of Lengths	One
Material	Steel
Brazed, Welded or Seamless	Seamless
Internal Diam.	5½"
Thickness	1/4"
How are Flanges secured?	Screwed with vanishing thread
Date of Hydraulic Test	11/2/26
Test Pressure	630 lbs.

LIST OF EVAPORATORS.

No.	One
Material	Steel
Working Pressure	10 lbs.
Date of Test of Safety Valve under Steam	17/2/26

FEED WATER HEATERS

No.	One
Material	Steel
Working Pressure	10 lbs.
Date of Test	22/1/26

FEED WATER FILTERS

No.	One
Material	Steel
Working Pressure	10 lbs.
Date of Test	23/1/26



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FEED WATER HEATERS.

FEED WATER FILTERS.

LIST OF DONKEY PUMPS.

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OTHER ARTICLES OF SPARE GEAR:—

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REFRIGERATORS.

No. of Machines *One* Capacity of each *Hull's No 15 A.*
 Makers *J. & E. Hull Ltd Dartford*
 Description *One Duplex C.O. Horizontal Marine Type.*

No. of Steam Cylinders, each Machine *2* No. of Compressors *2* No. of Cranks *2*

Particulars of Pumps in connection with Refrigerating Plant and whether worked by Refrigerating Machines

or Independently *One air pump worked off the Refrigerating Machine, one Vies independent circulating water pump, two Hull's Duplex Brine pumps (Steam driven) and four circulating air fans electrically driven*

System of Refrigeration *Air circulation*
 „ Insulation *Granulated cork*

Are Brine and other Regulating Valves placed so as to be accessible without entering the Insulated

Spaces?

Yes

Are all Pipes, Air Trunks, &c., well secured and protected from risk of damage?

Yes

Are all Bilge, Sounding, and Air Pipes in Insulated Spaces properly insulated?

Yes

Are Thermometer Tubes so arranged that Water cannot enter and freeze in them?

Yes

Date of Test under Working Conditions

23rd March 1926.

RESULTS OF TRIALS.

COMPARTMENT.	Temp. at beginning of Trial.	Temp. at end of Trial.	Time required to obtain this Result.	Average Rise of Temp. after 15 hours.
No 1 Second Deck	44°	26°	6 Hours.	9.5°
" Third "	44°	26°		
" Fourth "	44°	25°		
" Lower Hold	45°	25°		
No 2 Second Deck	44°	25°	6 Hours.	9.5°
" Third "	44°	25°		
" Fourth "	44°	24°		
" Lower Hold	45°	24°		
No 3 Second Deck	44°	26°	6 Hours.	8.6°
" Third "	44°	25°		
" Fourth "	45°	25°		
" Lower Hold	45°	25°		
No 4 Second "	44°	26°	6 Hours.	9.3°
" Third "	44°	26°		
" Fourth "	45°	25°		
" Lower Hold	45°	25°		

Articles of Spare Gear for Refrigerating Plant carried on board:—



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S. S. LLOYD'S REGISTER

Line to which connected	Line to which connected	Line to which connected	Line to which connected	Line to which connected
1	2	3	4	5
6	7	8	9	10
11	12	13	14	15
16	17	18	19	20
21	22	23	24	25
26	27	28	29	30
31	32	33	34	35
36	37	38	39	40
41	42	43	44	45
46	47	48	49	50
51	52	53	54	55
56	57	58	59	60
61	62	63	64	65
66	67	68	69	70
71	72	73	74	75
76	77	78	79	80
81	82	83	84	85
86	87	88	89	90
91	92	93	94	95
96	97	98	99	100

55
3
165
16
171

ELECTRIC LIGHTING.

Installation Fitted by *The Sunderland Forge Co. Ltd.*
 No. and Description of Dynamos *3-55 K.W. Steam driven & 1-6 K.W. Petrol driven*
 Makers of Dynamos *Messrs. Campbell & Isherwood Ltd (L. pool)*
 Capacity " *3-6-50* Amperes, at *110* Volts, *3-450* Revols. per Min.
1-60
 Current Alternating or Continuous *Continuous*
 Single or Double Wire System *Single except in the vicinity of compass*
 Position of Dynamos *The Main on Star Side of Main Engine Room (Bottom Platform)*
The Aux. dynamo in Room at top of Main Engine Room
 " Main Switch Board *Stand after end Main Eng. Room (Bottom Platform)*
 No. of Circuits to which Switches are provided on Main Switch Board *15.*

Particulars of these Circuits:—

Circuit.	Number of Lights.	Candle Power.	Current Required. Amps.	Size of Conductor.	Current Density. AMPS ² .	Conductivity of Conductor. 94PS ² .	Insulation Resistance per Mile.
Emergency	82		60	19/052	1500	64	
Engine Room	108		25.15	7/064	1120	46	
Forward Holds.	64		11.2	do	500	do	
after do	57		10.2	do	454	do	
Forecastle & Poop	62		14.85	do	660	do	
Captain's Office	73		21.25	do	945	do	
Saloon Accom.	62		26.1	do	1160	do	
Engineers	21		10.45	7/036	1490	24	
Boiler Room 1234	12		232 Ed.	37/103 Ed.	774 Ed.	240	
Saloon Heaters	✓		136.5	37/083	683	184	
Cabin do	✓		171.5	37/103	572	240	
ash Hairs	2		36.4	7/064	1620	46	

Total No. of Lights *550* No. of Motors driving Fans, &c. *6* No. of Heaters *45*
 Current required for Motors and Heaters *1292 Amps.*

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Positions of Auxiliary Switch Boards, with No. of Switches on each

Are Out-outs fitted as follows?—

On Main Switch Board, to Cables of Main Circuits

On Aux. " " each Auxiliary Circuit

Wherever a Cable is reduced in size

To each Lamp Circuit

To both Flow and Return Wires of all Circuits when the Double-Wire System is adopted

Are the Fuses of Standard Sizes?

Are all Switches and Out-outs constructed of Non-inflammable Material?

Are they placed so as to be always and easily accessible?

Smallest Single Wire used, No. S.W.G., Largest, No. S.W.G.

How are Conductors in Engine and Boiler Spaces protected?

" Saloons, State Rooms, &c., " ?

What special protection is provided in the following cases?—

(1) Conductors exposed to Heat or Damp

(2) " " passing through Bunkers or Cargo Spaces

(3) " " Deck Beams or Bulkheads

Are all Joints in Cables properly soldered and thoroughly Insulated so that the efficiency of the Cables is unimpaired?

Are all Joints in accessible positions, none being made in Bunkers or Cargo Spaces?

Are all Hull Connections for Single-Wire Systems made with Screws of large Surface?

Are the Dynamos, Motors, Main and Branch Cables, so placed that the Compasses are not injuriously affected by them?

Have Tests been made to prove that this condition has been satisfactorily fulfilled?

Has the Insulation Resistance over the whole system been tested?

What does the Resistance amount to?

Ohms.

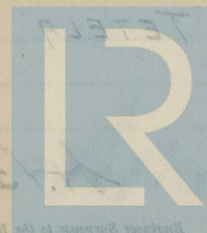
Is the Installation supplied with a Voltmeter?

" " " an Ampere Meter?

Date of Trial of complete Installation 19th March 1926. Duration of Trial

6 Hours.

Have all the requirements of Section 42 been satisfactorily carried out?



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GENERAL CONSTRUCTION

Have the Machinery and Boilers been constructed in accordance with the requirements of the Rules and the

Approved Plans?

If not, give details of the points of difference, and state when these were sanctioned by the Chief

Surveyor.

Fees—

MAIN BOILERS.

	£	s.	d.
H.S. 11600 Sq. ft.	:	:	:
G.S. 284 "	:	:	:

DONKEY BOILERS.

	£	s.	d.
H.S. ✓ Sq. ft.	:	:	:
G.S. ✓ "	:	:	:
	£	:	:

ENGINES.

	£	s.	d.
L.P.C. 149.3 Cub. ft.	:	:	:
	£	:	:
Testing, &c. ...	:	:	:
	£	:	:
Expenses ...	:	:	:
	£	:	:
Total ...	£	:	:

It is submitted that this Report be approved,

Walter King
Chief Surveyor.

Approved by the Committee for the Class of M.B.S.* on the 5th May 1926

Fees advised

Fees paid



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Secretary.

Are the Materials used in the Construction of Engines and Boilers, so far as could be seen, sound and trustworthy?

Is the Workmanship throughout thoroughly satisfactory?

The above correctly describes the Machinery of the S.S. "TETELA"

as ascertained by me from personal examination

H. Burch
Engineer Surveyor to the British Corporation for the
Survey and Registry of Shipping.

GENERAL CONSTRUCTION

Fees—

and the same shall be paid to the Secretary of the Board of Directors of the Corporation.

2d. If the Corporation shall be organized, the same shall be paid to the Secretary of the Board of Directors of the Corporation.

3d. If the Corporation shall be organized, the same shall be paid to the Secretary of the Board of Directors of the Corporation.

DEBENTURE HOLDERS

2d. If the Corporation shall be organized, the same shall be paid to the Secretary of the Board of Directors of the Corporation.

3d.

DEBENTURE

2d. If the Corporation shall be organized, the same shall be paid to the Secretary of the Board of Directors of the Corporation.

3d.

4d.

5d.

6d.

7d.

It is submitted that this Report be approved.

and the same shall be paid to the Secretary of the Board of Directors of the Corporation.

and the same shall be paid to the Secretary of the Board of Directors of the Corporation.

Approved by the Committee for the Class of M.B.S. on the 2d day of January 1900.

and the same shall be paid to the Secretary of the Board of Directors of the Corporation.

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