

No. 1843

THE BRITISH CORPORATION FOR THE SURVEY
AND
REGISTRY OF SHIPPING.

Report No. 2155... No. in Register Book 3513...

// "
S.S. WESTCLIFFE HALL

Makers of Engines

Cruickshank & Co Ltd

Works No.

308

Makers of Main Boilers

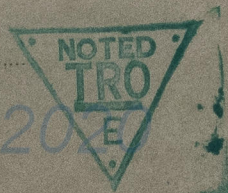
Blair & Co (1926) Ltd

Works No.

B674

Makers of Donkey Boiler

Works No.



MACHINERY.

Lloyd's Register
Foundation

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No.

THE BRITISH CORPORATION FOR THE SURVEY
AND
REGISTRY OF SHIPPING.

Report No. No. in Register Book

Received at Head Office *22nd November 1928*

Surveyor's Report on the Petrol Engines, Boilers, and Auxiliary
Machinery of the *Single Triple Screw Steamers*
"Westcliffe Hall"

Official No. *160408* Port of Registry *Middleborough*

Registered Owners

Engines Built by

at

Main Boilers Built by

at

Donkey " "

at

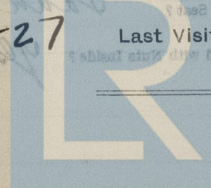
Date of Completion

First Visit *1-11-27*

Last Visit

9-5-28

Total Visits *40*



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RECIPROCATING ENGINES

Works No.	No. of Sets	Description
308	1	Triple Schausson

No. of Cylinders each Engine ³ No. of Cranks 120°
Diars. of Cylinders 15"-25"-40" Stroke 33"
Cubic feet in each L.P. Cylinder 23.68
Are Spring-loaded Relief Valves fitted to Top and Bottom of each Cylr? *ye.*

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

“ “ “ each Receiver ?

Type of H.P. Valves,

72 1st I.P. 77

" 2nd I.P. "

„ L.P. „

" Valve Gear

Condenser

Diameter of Piston Rods (plain part)

Material

Diar. of Connecting Rods (smallest part)

.. Crosshead Gudgeons 3/8 Length of Bearing 0/4 Material

No. of Crosshead Bolts (each) 4 Diar. over Thrd. 1 7/8 Thrds. per inch 5 Material

.. Crank Pin .. " 2 " 2 1/4 " 6

"	Main Bearings	6	Lengths	8 78
---	---------------	---	---------	------

.. Bolts in each	2	Diar. over Thread	2	Threads per inch	14	Material
------------------	---	-------------------	---	------------------	----	----------

.. Holding Down Bolts, each Engine 50 Diar. 121 No. of Metal Chocks

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

Piston " "

Crossheads,

Connecting Rods, Finished by

Piston	"	"
--------	---	---

Crossheads,

Date of Harbour Trial

Trial Trip

Trials run at

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

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

Pressure in 1st I.P. Receiver, 56 lbs., 2nd I.P.

Speed on Trial

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

data:—

Builders' estimated I.H.P.

Estimated Speed

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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

Revol. 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 Revols. per min.

S.H.P.

Makers of Turbines

Generators

Motors

Reduction Gear

Turbine Spindles forged by

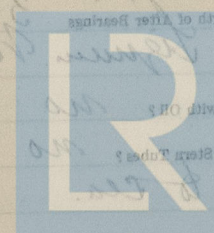
Wheels forged or cast by

Reduction Gear Shafts forged by

Wheels forged or cast by

DESCRIPTION OF INSTALLATION

Type of Turbine Blocks
 No. of Turbine Shafts at bottom of Collars
 Diam. of Turbine Shafts at bottom of Collars
 Forward Coupling
 No. of Bolts each Coupling
 Diam. at Mid Length
 Actual
 No. of Lengths
 Diam. of Pitch Circle
 Actual
 At Couplings
 Length of After Bearings
 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 Sea Water entering the Stern Tubes?
 If so, what Type is adopted?



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SHAFTING.

Are the Crank Shafts Built or Solid?

built.

No. of Lengths in each

1

Angle of Cranks

120°

Diar. by Rule

Actual

In Way of Webs

,, of Crank Pins

8 3/4"

Length between Webs

8 1/2"

Greatest Width of Crank Webs

15 5/8"

Thickness

5 1/16"

Least

,,

12 1/2"

,,

4"

Diar. of Keys in Crank Webs

1"

Length

3 1/2"

,, Dowels in Crank Pins

6

Length

Screwed or Plain

plain.

No. of Bolts each Coupling

6

Diar. at Mid Length

2"

Diar. of Pitch Circle

12 1/2"

Greatest Distance from Edge of Main Bearing to Crank Web

1/8"

Type of Thrust Blocks

Horseshoe.

No. ,, Rings

5

Diar. of Thrust Shafts at bottom of Collars

8 3/8"

No. of Collars

5

,, ,, Forward Coupling

7 7/8"

At Aft Coupling

7 7/8"

Diar. of Intermediate Shafting by Rule

Actual

No. of Lengths

No. of Bolts, each Coupling

Diar. at Mid Length

Diar. of Pitch Circle

Diar. of Propeller Shafts by Rule

Actual

At Couplings

*9"**8 3/8"*

Are Propeller Shafts fitted with Continuous Brass Liners?

yes.

Diar. over Liners

10 13/16"

Length of After Bearings

3 1/4"

Of what Material are the After Bearings composed?

Signum 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?

open to sea.

SKETCH OF CRANK SHAFT.

No. of Blades each Propeller

Material of Blades

Diar. of Propellers

Coefficient of Displacement of Vessel at 1 Moulded Depth

Crank Shafts Forged by

Pins

Webs

Thrust Shafts

Intermediate

Propeller

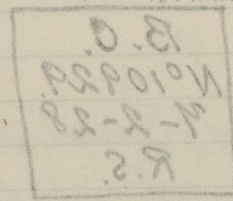
Crank

Thrust

Intermediate

Propeller

STAMP MARKS ON SHAFTS.



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No. of Blades each Propeller

Fitted or Solid?

Material of Blades

Boas

Diam. of Propellers

Pitch

Surface (each

S. ft.

Coefficient of Displacement of Vessel at $\frac{1}{2}$ Moulded Depth

Crank Shafts Forged by

Material

Pins

Webs

Thrust Shafts

Intermed. "

Propeller "

Crank " Finished by

Thrust " "

Intermed. " "

Propeller " "

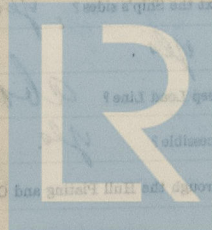
STAMP MARKS ON SHAFTS.

Crank. Thrust
Tail Shafts:

B. C.
No 10929
7-2-28
R. S.

SKETCH OF PROPELLER SHAFT.

No. of Air Pumps
Worked by Main or Independent Engines?
No. of Circulating Pumps
Type of
Diam. of
Has each Pump a High Section with Non-return Valve?
What other Pumps can circulate through Condenser?
No. of Feed Pumps on Main Engine
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 High Pumps on Main Engine
Can one Pump be overhauled while the others are at work?
No. of Independent High Pumps
What other Pumps can draw from the Highs?
Are all High Sections fitted with Hoses?
Are the Valves, etc., so arranged as to prevent unintentional connection between Sea and Highs?
Are all Sea Connections made with Valves so located near the ship's side?
Are they placed so as to be easily accessible?
Are the Discharge Chests placed above or below the Propeller Line?
Are they fitted with a Non-return Valve and easily accessible?
Are all flow-off Cocks or Valves fitted with caps through the Hull casing and Covering Plates or Flanges



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PUMPS, ETC.

No. of Air Pumps

1

Diar.

14"

Stroke

16 1/2"

Worked by Main or Independent Engines?

M. Engines

No. of Circulating Pumps

1

Diar.

10"

Stroke

10"

Type of

"

Vertical Duplex

Diar. of

"

Suction from Sea

7"

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

yes.

Diar.

4 3/4"

What other Pumps can circulate through Condenser?

Ballast pump.

No. of Feed Pumps on Main Engine

2

Diar.

2 3/4"

Stroke

16 1/2"

Are Spring-loaded Relief Valves fitted to each Pump?

yes.

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

yes.

No. of Independent Feed Pumps

Diar.

Stroke

What other Pumps can feed the Boilers?

General Service.

No. of Bilge Pumps on Main Engine

2

Diar.

2 3/4"

Stroke

16 1/2"

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

yes.

No. of Independent Bilge Pumps

What other Pumps can draw from the Bilges?

Ballast General Service.

Are all Bilge Suctions fitted with Roses?

Hudbot start pipes.

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

yes.

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

yes.

Are they placed so as to be easily accessible?

yes.

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

above.

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

yes.

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

on the Outside?

yes.

BOILERS

Works No.

No. of Boilers

Single or Double-ended

No. of Boilers in each

Type of Boilers

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 Bracing

Can Boilers be worked separately?

Makers of Plates

Rivet Bars

Rivets

Pitch

Greatest Internal Diameter of Boilers

Length

Square Test of Flanges

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BOILERS.

Works No.

No. of Boilers

Type

Single or Double-ended

No. of Furnaces in each

Type of Furnaces

Date when Plan 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 Draught

Can Boilers be worked separately?

Makers of Plates

" Stay Bars

" Rivets

" Furnaces

Greatest Internal Diam. of Boilers

" " Length "

Square Feet of Heating Surface each Boiler

" " Grate "

No. of Safety Valves each Boiler

Rule Diam.

Actual

Are the Safety Valves fitted with Easing Gear?

No. of Pressure Gauges, each Boiler

No. of Water Gauges

" Test Cocks

" " Salinometer Cocks

3674.
Cylindrical multitubular
single.

180 lbs.
320 "
16-4-28
7-5-28
185 lbs.
7-5-28
185 lbs.
C.A.

Can Boilers be worked separately?
Makers of Plates
Blair & Co.
John Thompson.

10' 4 3/8"
10' 9 1/16"
1128 #
33.8 #

2 1/2"

Are the Water Gauges fitted direct to the Boiler Shell or mounted on Valves?

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

Are these Pipes connected to Boilers by Cocks or Valves?

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

No. of Stakes of Shell Plating in each Boiler

Plates in each Stakes

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 Beams Hand or Machine Riveted?

Are they Single, Double or Triple Riveted?

No. of Rivets in a Pitch

Pitch of Rivets

No. of Rows of Rivets in Centre Circumferential Seams

Are these Seams Hand or Machine Riveted?

Pitch of Rivets

No. of Rows of Rivets in Front and Circumferential Seams

Are these Seams Hand or Machine Riveted?

Pitch of Rivets

No. of Rows of Rivets in Hand and Circumferential Seams

Are these Seams Hand or Machine Riveted?

Pitch of Rivets

Size of Washers in Shell

Dimensions of Connecting Rings



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

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

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 Head Plates in Steam Space Approved

in Boilers

Pitch of Steam Space Straps

Diam. of Rivet Holes Approved

in Boilers

Material of

How are Straps Secured?

Diam. and Thickness of Loose Washers on Head Plates

Riveted

Double Straps

Thickness of Middle Back End Plates Approved

in Boilers

Thickness of Doublings in Wide Spaces between Rivets

Pitch of Straps as

Diam. of Straps Approved

in Boilers

Material of

Are Straps fitted with Ribs outside?

Thickness of Head End Plates at Bottom Approved

in Boilers

Pitch of Straps as Wide Spaces between Rivets

Thickness of Doublings in

Thickness of Front End Plates at Bottom Approved

in Boilers

No. of Longitudinal Straps in Spaces between Rivets

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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?

Diar. and Thickness of Loose Washers on End Plates

" " Riveted " " "

Width " " Doubling Strips "

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?

Thickness of Back End Plates at Bottom Approved

" " " " " in Boilers

Pitch of Stays at Wide Spaces between Fireboxes

Thickness of Doublings in "

Thickness of Front End Plates at Bottom Approved

" " " " " in Boilers

No. of Longitudinal Stays in Spaces between Furnaces

Threads per Inch

Thickness of Stays Approved

" " " " in Boilers

Material "

Thickness of Front End 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 End Plates Approved

" " " " in Boilers

Pitch of Stay Tubes in Back End Plates

" " " " Plain

Thickness of Stay Tubes

" " " " Plain

External Diam. of Tubes

Material "

Thickness of Furnace Plates Approved

" " " " in Boilers

Smallest outside Diam. of Furnaces

Length between Tubes

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Diar. of Stays Approved Threads per Inch

" " in Boilers

Material "

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 "

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.C. Tops

Threads per Inch

Diar. of Screwed Stays Approved

" " " in Boilers

Material "

Thickness of Combustion Chamber Plates Approved

" " " in Boilers

Pitch of Screwed Stays in C.C. Stays

Diar. " " Approved Threads per Inch

" " " in Boilers

Material "

Thickness of Combustion Chamber Plates Approved

" " " in Boilers

Pitch of Screwed Stays in C.C. Stays

Diar. " " Approved Threads per Inch

" " " in Boilers

Material "

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

Thickness of Combustion Chamber Plates

" " " in Boilers

No. of Stays over each Wing Chamber

" " " Centre

Depth and Thickness of Stays

Material of Stays

No. of Stays in each

No. of Tubes in each Boiler

Size of Boiler



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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.O. Sides

Diar. " " Approved Threads per Inch

" " " in Boilers

Material " "

Thickness of Combustion Chamber Backs Approved

" " " " in Boilers

Pitch of Screwed Stays in C.O. Backs

Diar. " " Approved Threads per Inch

" " " in Boilers

Material " "

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

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

No. of Boilers
Type
Greatest Int. Diam.
Height
Height of Boiler Crown above Fire Grate
Are Boiler Crowns Flat or Dished?
Internal Radius of Dished Ends
Description of Beams in Boiler Crown
Diam. of Blast Hole
Height of Tripod Crown above Fire Grate
Are Tripod Crowns Flat or Dished?
External Radius of Dished Crowns
Thickness of Plates
No. of Crown Stays
Diam.
External Diam. of Tripod at Top
Thickness
No. of Water Tubes
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 removed without the Boilers working?
No. of Safety Valves on each Superheater
Diam.
Date of Hydrostatic Test
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

Diar. 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 Diar. Material

External Diar. of Firebox at Top Bottom Thickness of Plates

No. of Water Tubes Ext. Diar. 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 Diar.

Are " " fitted with Easing Gear?

Date of Hydraulic Test Test Pressure

Date when Safety Valves set Pressure on Valves

MAIN STEAM PIPES

No. of Lengths

Material

Braced, Welded or Seamed

Internal Diar.

Thickness

How are Flanges secured?

Date of Hydraulic Test

Test Pressure

No. of Lengths

Material

Braced, Welded or Seamed

Internal Diar.

Thickness

How are Flanges secured?

Date of Hydraulic Test

Test Pressure

No. of Lengths

Material

Braced, Welded or Seamed

Internal Diar.

Thickness

How are Flanges secured?

Date of Hydraulic Test

Test Pressure



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MAIN STEAM PIPES.

No. of Lengths

Material

Brazed, Welded or Seamless

Internal Diam.

Thickness

How are Flanges secured?

Date of Hydraulic Test

Test Pressure

No. of Lengths

Material

Brazed, Welded or Seamless

Internal Diam.

Thickness

How are Flanges secured?

Date of Hydraulic Test

Test Pressure

SUPERHEATERS

No. of Lengths

Material

Brazed, Welded or Seamless

Internal Diam.

Thickness

How are Flanges secured?

Date of Hydraulic Test

Test Pressure

STEAM EVAPORATORS

6" x 4" x 1/2" Vertical Shell & Tube
 3/4" x 3/4" x 1/2" Horizontal Shell & Tube
 3/4" x 3/4" x 1/2" Horizontal Shell & Tube
 3/4" x 3/4" x 1/2" Horizontal Shell & Tube

FEED WATER HEATERS

FEED WATER FILTERS



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EVAPORATORS.

No.	Length	Type	Tons per Day
Makers			
Working Pressure		Test Pressure	Date of Test
Date of Test of Safety Valves under Steam			

FEED WATER HEATERS.

No.	Type	Makers	Working Pressure	Test Pressure	Date of Test
1	Walden & Brook	Walden & Brook	180 lb.	400 lb.	

FEED WATER FILTERS.

No.	Type	Makers	Working Pressure	Test Pressure	Date of Test
1	Maccoll & Padlock	Maccoll & Padlock	180 lb.	400 lb.	

LIST OF DONKEY PUMPS.

6" x 4" x 6"	Vertical Double General Service Donkey.
3 1/2" x 3 1/2" x 4"	Double Suction Donkey.
3 1/2" x 3 1/2" x 4"	Double Fresh Water Pump.
9 1/2" x 4 1/2" x 11"	Vertical Double Ballast Pump.



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SPARE GEAR 21

No. of Top End Bolts.	No. of Bot. End Bolts.	No. of Cylinder Cover Studs
" Coupling Bolts	" Main Bearing Bolts	" Valve Chest "
" Junk Ring Bolts	" Feed Pump Valves	" Bilge Pump Valves
" H.P. Piston Rings	" I.P. Piston Rings	" L.P. Piston Rings
" " Springs	" " Springs	" " Springs
" Safety Valve "	" Fire Bars	" Feed Check Valves
" Piston Rods	" Connecting Rods	" Valve Spindles
" Air Pump Rods	" Air Pump Buckets	" Air Pump Valves
" Cir. "	" Cir. "	" Cir. "
" Crank Shafts	" Crank Pin Bushes	" Crosshead Bushes
" Propeller Shafts	" Propellers	" Propeller Blades
" Boiler Tubes	" Condenser Tubes	" Condenser Ferrules

OTHER ARTICLES OF SPARE GEAR:—

SS OF SPARE GEAR:—



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REFRIGERATORS.

No. of Machines Capacity of each No. of Cylinders or Compressors

Makers Make Working Valve Valve (Crank)

Description Working Valve Valve Pump Valve

H.P. Motor Horse H.P. Motor Horse H.P. Motor Horse

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

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

Air Pump Valves Air Pump Valves

Crank Shafts Crank Shafts Crank Shafts

Propeller Shafts Propeller Shafts Propeller Shafts

Water Tubes Water Tubes Water Tubes

System of Refrigeration

,, Insulation

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

Spaces?

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

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

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

Date of Test under Working Conditions

RESULTS OF TRIALS.

COMPARTMENT.	Temp. at beginning of Trial.	Temp. at end of Trial.	Time required to obtain this Result.	Rise of Temp. after hours.
Makers of Dynamometer				
Capacity				
Current Affected by or Continuous				
Height or Depth of Water				
Position of Dynamometer				
Main Section Board				
No. of Cylinders in which trial was carried on Main Section Board				
Particulars of State of Trial				
Current	Number of Lights	Number of Lights	Number of Lights	Number of Lights

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



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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 Cut-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.,
1	18	1	18
2	18	2	18
3	18	3	18
4	18	4	18
5	18	5	18
6	18	6	18
7	18	7	18
8	18	8	18
9	18	9	18
10	18	10	18
11	18	11	18
12	18	12	18
13	18	13	18
14	18	14	18
15	18	15	18
16	18	16	18
17	18	17	18
18	18	18	18
19	18	19	18
20	18	20	18
21	18	21	18
22	18	22	18
23	18	23	18
24	18	24	18
25	18	25	18
26	18	26	18
27	18	27	18
28	18	28	18
29	18	29	18
30	18	30	18
31	18	31	18
32	18	32	18
33	18	33	18
34	18	34	18
35	18	35	18
36	18	36	18
37	18	37	18
38	18	38	18
39	18	39	18
40	18	40	18
41	18	41	18
42	18	42	18
43	18	43	18
44	18	44	18
45	18	45	18
46	18	46	18
47	18	47	18
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49	18	49	18
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51	18	51	18
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89	18	89	18
90	18	90	18
91	18	91	18
92	18	92	18
93	18	93	18
94	18	94	18
95	18	95	18
96	18	96	18
97	18	97	18
98	18	98	18
99	18	99	18
100	18	100	18

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

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 9-5-28 Duration of Trial 6 hours

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

GENERAL CONSTRUCTION.

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

Approved Plans? *yes.*

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

Surveyor: *yes*

yes

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

Has the Installation been tested?

yes

What does the Resistance amount to?

Is the Installation completed with a 40-ton test?

an Ampere Meter?

Date of Trial of complete Installation. *9-2-25*

Have all the requirements of Section 22 been satisfactorily carried out? *yes*

Are Out-lets fitted as follows?

On Main Switch Board, to Cables of Main Motors

On Main Switch Board, to Cables of Main Motors

Wherever a Cable is reduced in size

To each Lamp Circuit

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

trustworthy? *yes.*

Is the Workmanship throughout thoroughly satisfactory? *yes.*

Are they placed so as to be easily accessible?

Are they placed so as to be easily accessible?

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

"WESTCLIFFE HALL"

as ascertained by *me* from personal examination

What special protection is provided in the following cases?

(1) Connections exposed to Heat or Damage

(2) Running through Bulkheads or Deck

(3) Deck Spaces or Bulkheads

J. D. Stephenson

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

Fees—

MAIN BOILERS.

	£	s.	d.
H.S. <i>22.56</i> Sq. ft.	:	:	:
G.S. <i>64.6</i> "	:	:	:

DONKEY BOILERS.

H.S. <i>✓</i> Sq. ft.	:	:	:
G.S. <i>✓</i> "	:	:	:

£	:	:
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ENGINES.

L.P.C. <i>23.65</i> Cub. ft.	:	:	:
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£	:	:
---	---	---

Testing, &c. ...	:	:	:
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£	:	:
---	---	---

Expenses ...	:	:	:
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Total ... £	:	:	:
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It is submitted that this Report be approved.

J. D. Adam
Chief Surveyor.

Approved by the Committee for the Class of M.B.S.* on the *25th July 1925*

Fees advised

Fees paid



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