

No. 2239

THE BRITISH CORPORATION FOR THE SURVEY
AND
REGISTRY OF SHIPPING.

Report No. 2249 No. in Register Book 3664

" " "
S.S. K O S. VI
Makers of Engines Smiths Dock Co. Ltd.

Works No. 334

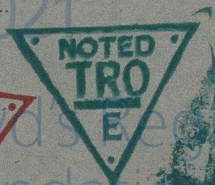
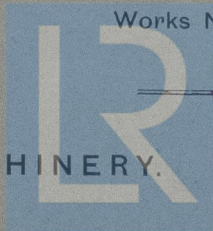
Makers of Main Boilers Blair & Co. (1926) Ltd.

Works No. C. 200

Makers of Donkey Boiler ✓

Works No. ✓

MACHINERY.



8610-243800-983800

BRITISH

No.

THE BRITISH CORPORATION FOR THE SURVEY

AND

REGISTRY OF SHIPPING.

Report No. No. in Register Book

Received at Head Office. *18th December 1929*

Surveyor's Report on the New Engines, Boilers, and Auxiliary Machinery of the ~~Single Triple~~ *Whale* Screw ~~Twin Quadruple~~ "KOS. VI."

Official No.

Port of Registry *Candefford*

Registered Owners

Swalpaugerselskabet Holsnægt

Engines Built by

at

Main Boilers Built by

at

Donkey " "

at

Date of Completion

6-29

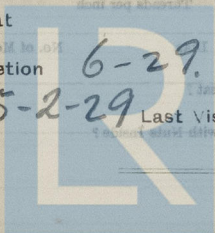
First Visit

25-2-29

Last Visit

11-6-29

Total Visits *30*



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RECIPROCATING ENGINES.

Works No. **334** No. of Sets **1** Description **Light expansion 3 Cyls.**

No. of Cylinders each Engine **3.** No. of Cranks **3.**
 Diars. of Cylinders **14" 23" 39"** Stroke **24"**
 Cubic feet in each L.P. Cylinder **16.6**

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

" " " each Receiver?

Type of H.P. Valves,

1st I.P. ,,

2nd I.P.,,

L.P. ,,

" Valve Gear

" Condenser

Diameter of Piston Rods (plain part)

Material "

Diars. of Connecting Rods (smallest part)

" Crosshead Gudgeons

Length of Bearing

Material

No. of Crosshead Bolts (each)

Diars. over Thrd.

Thrds. per inch

Material

" Crank Pin "

" Main Bearings

Lengths

" Bolts in each

Diars. over Thread

Threads per inch

Material

" Holding Down Bolts, each Engine

Diars.

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?

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

Pressure in 1st I.P. Receiver, **62** lbs., 2nd I.P.,

lbs., L.P., **10.8** lbs., Vacuum, **25** ins.

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.

Revs. per min.

Estimated Speed

Brown Bros.

Smiths Dock Co Ltd

11-6-29.

11-6-29.

In North Sea.

ylb.

Revs. per min. 150

842

no speed taken



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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 Stern

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

Is Single or Double Reduction Gear employed?

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 H.P. Turbines at Full Power S.H.P.

" " L.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

TURBO-ELECTRIC INSTALLATION OR DESCRIPTION OF MACHINERY.

No. of Turbo-Generating Sets 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

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

Horse power of Motors at Full Power

" " Motors

" 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.



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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 Block

No. of Rings

Diam. of Thrust Shafts at bottom of Collars

Forward Coupling

No. of Collars

At AIS Coupling

Diam. of Intermediate Shafts at top

At AIS Coupling

No. of Collars

Diam. at Mid Length

No. of Bolts each Coupling

Diam. of Propeller Shafts by Hole

Are Propeller Shafts fixed with Continuous Brass Liners?

Diam. over Liners

Of what Material are the AIS Bearings composed?

Are Means provided for lubricating the AIS Bearings with Oil?

No. of Bolts each Coupling

Diam. at Mid Length

No. of Collars

At AIS Coupling

Diam. of Intermediate Shafts at top

Forward Coupling

No. of Collars

Diam. of Thrust Shafts at bottom of Collars

Type of Thrust Block



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SHAFTING.

Are the Crank Shafts Built or Solid?

No. of Lengths in each

Angle of Cranks

Diar. by Rule

Actual

In Way of Webs

" of Crank Pins

Length between Webs

Greatest Width of Crank Webs

Thickness

Least " "

Diar. of Keys in Crank Webs

Length

" Dowels in Crank Pins

Length

Screwed or Plain

No. of Bolts each Coupling

Diar. at Mid Length

Diar. of Pitch Circle

Greatest Distance from Edge of Main Bearing to Crank Web

Type of Thrust Blocks

No. " Rings

Diar. of Thrust Shafts at bottom of Collars

No. of Collars

" " Forward Coupling

At Aft Coupling

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

Are Propeller Shafts fitted with Continuous Brass Liners?

Diar. over Liners

Length of After Bearings

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?

SKETCH OF CRANK SHAFT.

No. of Blades each Propeller

Material of Blades

Diar. of Propeller

Surfaces (each)

Coefficients of Frictionment of Vessel and Mounted Thrust

Cranks Shafts Forged by

" Pins

" Webs

" Thrust Shafts

" Intermediate

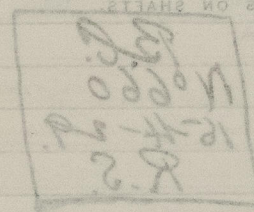
" Propeller

Cranks " finished by

" Thrust

" Intermediate

" Propeller



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No. of Blades each Propeller

Material of Blades

Diam. of Propeller

Coefficient of Displacement of Vessel at Moulded Depth

Crank Shafts Forged by

Pins

Webs

Thrust Shafts

Intermed. "

Propeller "

Crank " Finished by

Thrust "

Intermed. "

Propeller "

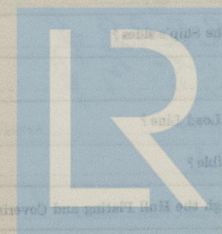
STAMP MARKS ON SHAFTS.

*Crank. Thrust
Shafts:—*

*B.C.
N° 660
15-4-29.
R.S.*

SKETCH OF PROPELLER SHAFT.

No. of Air Pumps
Worked by Main or Independent Engines?
No. of Circulating Pumps
Diam. of
Section from Sea
Diam. of
Has each Pump a Rigid 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 in 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 in work?
No. of Independent High Pumps
What other Pumps can draw from the Bilge?
Are all High Sections fitted with Relief?
Are the Valves, etc., arranged so as to prevent unintentional connection between Sea and Bilge?
Are all Sea Connections made with Valves or Disconnects?
Are they placed so as to be easily accessible?
Are the Discharge Pipes placed above or below the Deep Load Line?
Are the Pipes connected to the Bilge in such a way as to be easily accessible?
Are all Bilge Pumps fitted with Relief?
Are the Bilge Pumps fitted with Relief?



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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

Works No.

No. of Boilers

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?

Methods of Flaming

Hot Air

Boiler

Boiler

Greatest Internal Part of Boilers

Length

Space Port of Heating and each Boiler

Grate

No. of Safety Valves on each Boiler

Pressure at which Valves were set

No. of Water Cocks

Test Cocks



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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 Diar. of Boilers

" " Length "

Square Feet of Heating Surface each Boiler

| | | | | |
|---|---|-------|---|---|
| " | " | Grate | " | " |
|---|---|-------|---|---|

No. of Safety Valves each Boiler

Are the Safety Valves fitted with Easing Gear?

No. of Pressure Gauges, each Boiler

Test Cocks

Rule Diar.

Actual

No. of Water Gauges

Salinometer Cocks

15

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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

Diar. of Rivet Holes

Pitch

No. of Rows of Rivets in Centre Circumferential Seams

Are these Seams Hand or Machine Riveted?

Diar. of Rivet Holes

Pitch

No. of Rows of Rivets in Front End Circumferential Seams

Are these Seams Hand or Machine riveted?

Diar. of Rivet Holes

Pitch

No. of Rows of Rivets in Back End Circumferential Seams

Are these Seams Hand or Machine Riveted?

Diar. of Rivet Holes

Pitch

Size of Manholes in Shell

Dimensions of Compensating Rings



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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



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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.O. Tops

same as "KOS.I"

Diag. of Screwed Stays Approved

" " in Boilers

Material "

Thickness of Combustion Chamber Walls Approved

" " in Boilers

Pitch of Screwed Stays in C.O. Heads

Diag. of Screwed Stays Approved

" " in Boilers

Material "

Thickness of Combustion Chamber Walls Approved

" " in Boilers

Pitch of Screwed Stays in C.O. Heads

Diag. of Screwed Stays Approved

" " in Boilers

Material "

Thickness of Combustion Chamber Walls Approved

" " in Boilers

Pitch of Screwed Stays in C.O. Heads

Diag. of Screwed Stays Approved

" " in Boilers

Material "

Thickness of Combustion Chamber Walls Approved

" " in Boilers

Pitch of Screwed Stays in C.O. Heads

Diag. of Screwed Stays Approved

" " in Boilers

Material "



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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 Dishd?
Internal Radius of Dishd Ends
Description of Seams in Boiler Crowns
Pitch
Diar. of Rivet Holes
Height of Firebox Crown above Fire Grate
Are Firebox Crowns Flat or Dishd?
External Radius of Dishd Crowns
Thickness of Plates
Material
Diar.
No. of Crown Stays
External Diar. of Firebox at Top
Bottom
Thickness of Plates
No. of Water Tubes
Diar. 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 holes are connected to superheaters?
Can superheaters be shut off while boiler is working?

No. of Safety Valves on each superheater

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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 Pipes | |
| Material | |
| Internal Diar. | |
| Thickness | |
| How are Flanges secured? | |
| Date of Hydraulic Test | |
| Test Pressure | |
| No. of Pipes | |
| Material | |
| Internal Diar. | |
| Thickness | |
| How are Flanges secured? | |
| Date of Hydraulic Test | |
| Test Pressure | |
| No. of Pipes | |
| Material | |
| 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

No. of Lengths

Material

Brazed, Welded or Seamless

Internal Diam.

Thickness

How are Flanges secured?

Date of Hydraulic Test

Test Pressure

1
copper.
S.D.
4 1/2"
H.W.L.
cracked.
6-6-29
400 lbs.

LIST OF ROTARY PUMPS

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

No. of Lengths

Material

Brazed, Welded or Seamless

Internal Diam.

Thickness

How are Flanges secured?

Date of Hydraulic Test

Test Pressure

FEED WATER HEATERS

FEED WATER FILTERS



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EVAPORATORS.

| No. | 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 |

FEED WATER FILTERS.

| No. | Type | Size |
|------------------|---------------|--------------|
| Makers | | |
| Working Pressure | Test Pressure | Date of Test |

LIST OF DONKEY PUMPS.

Came as "KOS.I"

| | | |
|---------------------|---------------------|---------------------|
| No. of Top End Hole | No. of Top End Hole | No. of Top End Hole |
| Coupling Hole | Coupling Hole | Coupling Hole |
| Lead Pump Valve | Lead Pump Valve | Lead Pump Valve |
| High Pump Valve | High Pump Valve | High Pump Valve |
| L.P. Piston Rings | L.P. Piston Rings | L.P. Piston Rings |
| Spring | Spring | Spring |
| Lead Check Valve | Lead Check Valve | Lead Check Valve |
| Valve Spindle | Valve Spindle | Valve Spindle |
| Air Pump Valve | Air Pump Valve | Air Pump Valve |
| Oil | Oil | Oil |
| Crosshead Rods | Crosshead Rods | Crosshead Rods |
| Propeller Blade | Propeller Blade | Propeller Blade |
| Condenser Tubes | Condenser Tubes | Condenser Tubes |



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OTHER ARTICLES OF SPARE GEAR:—

REFRIGERATORS.

No. of Machines

Capacity of each

Makers

Description

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

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.

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 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. |
|--------------------------------|----------------------|--------|
| 10 | 12 | 14 |
| 12 | 14 | 16 |
| 14 | 16 | 18 |
| 16 | 18 | 20 |
| 18 | 20 | 22 |
| 20 | 22 | 24 |
| 22 | 24 | 26 |
| 24 | 26 | 28 |
| 26 | 28 | 30 |
| 28 | 30 | 32 |
| 30 | 32 | 34 |
| 32 | 34 | 36 |
| 34 | 36 | 38 |
| 36 | 38 | 40 |
| 38 | 40 | 42 |
| 40 | 42 | 44 |
| 42 | 44 | 46 |
| 44 | 46 | 48 |
| 46 | 48 | 50 |
| 48 | 50 | 52 |
| 50 | 52 | 54 |
| 52 | 54 | 56 |
| 54 | 56 | 58 |
| 56 | 58 | 60 |
| 58 | 60 | 62 |
| 60 | 62 | 64 |
| 62 | 64 | 66 |
| 64 | 66 | 68 |
| 66 | 68 | 70 |
| 68 | 70 | 72 |
| 70 | 72 | 74 |
| 72 | 74 | 76 |
| 74 | 76 | 78 |
| 76 | 78 | 80 |
| 78 | 80 | 82 |
| 80 | 82 | 84 |
| 82 | 84 | 86 |
| 84 | 86 | 88 |
| 86 | 88 | 90 |
| 88 | 90 | 92 |
| 90 | 92 | 94 |
| 92 | 94 | 96 |
| 94 | 96 | 98 |
| 96 | 98 | 100 |

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 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 11-6-29 Duration of Trial

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

GENERAL CONSTRUCTION.

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

Approved Plans? *yfs.*

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. <i>2292</i> Sq. ft. | : | : | : |
| G.S. <i>55-4</i> " | : | : | : |

DONKEY BOILERS.

| | £ | s. | d. |
|--------------|---|----|----|
| H.S. Sq. ft. | : | : | : |
| G.S. " | : | : | : |
| | £ | : | : |

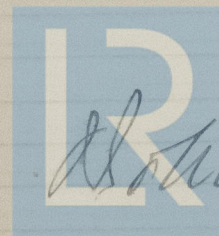
ENGINES.

| | £ | s. | d. |
|-----------------------------|---|----|----|
| L.P.O. <i>16.6</i> Cub. ft. | : | : | : |
| | £ | : | : |
| Testing, &c. ... | : | : | : |
| | £ | : | : |
| Expenses ... | : | : | : |
| Total ... | £ | : | : |

It is submitted that this Report be approved,

James Barr for Chief Surveyor.

Approved by the Committee for the Class of M.B.S.* on the *23rd December 1929*



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Lloyd's Register
Foundation
Secretary.

Fees advised

Fees paid

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

Is the Workmanship throughout thoroughly satisfactory? *yfs.*

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

as ascertained by *me* from personal examination

J. D. Stephenson

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

GENERAL CONSTRUCTION

Rece-

APPROVED BY THE COMMITTEE FOR THE CLASS OF M.B.S. ON THE 10th NOVEMBER 1955

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