

No. 1815

THE BRITISH CORPORATION FOR THE SURVEY
AND
REGISTRY OF SHIPPING.

Report No. 2129 No. in Register Book 3484.

S.S. *Lavaldoe*

Makers of Engines *Swan Hunter & W.R. Ltd.*

Works No. *1260.*

Makers of Main Boilers *Swan Hunter & W.R. Ltd.*

Works No. *1260*

Makers of Donkey Boiler *None*

Works No. *2*

MACHINERY.



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004374-004381-0171

No.

THE BRITISH CORPORATION FOR THE SURVEY

AND

REGISTRY OF SHIPPING.

Report No. No. in Register Book

Received at Head Office

22nd August 1928

Surveyor's Report on the **Peto Engines, Boilers, and Auxiliary Machinery** of the **Single Triple Screw "LAVALDOE"**

Official No. 149456 Port of Registry

Newcastle

Registered Owners

Peterson Steamship Co

Engines Built by

Swan Hunter & W.R. CA
Walker R. Ique.

Main Boilers Built by

Swan Hunter & W.R. CA
Walker R. Ique.

Donkey

none

Date of Completion

22-3-18

First Visit

27.9.24

Last Visit

22-3-28

Total Visits

48



RECIPROCATING ENGINES.

Works No. 1260 No. of Sets One Description

Name James No. 1258 & 1236
Kingdon

No. of Cylinders each Engine 3 No. of Cranks 3

Diams. of Cylinders 15.25" x 40" Stroke 33"

Cubic feet in each L.P. Cylinder 24

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

Cooling Surface 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. Thds. 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 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

Yape Forge Coy.

Piston " "

do

Crossheads, " "

do

Connecting Rods, Finished by

Swan Hunter

Piston " "

Crossheads, " "

Date of Harbour Trial

4-3-28

" Trial Trip

22nd Mar 1928.

Trials run at

off R. Tyne.

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

Yes. (Bad weather)

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

✓

Revs. per min. 106

Pressure in 1st I.P. Receiver, 52 lbs., 2nd I.P.,

lbs., L.P., 4 3/4 lbs., Vacuum, 25 1/2 ins.

Speed on Trial

none taken

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

data:—

Builders' estimated L.H.P. ✓

Revs. per min. ✓

Estimated Speed ✓



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Same as St Kingdoc 1236.

SHAFTING.

Are the Crank Shafts Built or Solid? Built

No. of Lengths in each one Angle of Cranks 120°

Diar. by Rule 8.76" Actual 8 ³/₈" In Way of Webs 8 ⁷/₈"

" of Crank Pins 8 ³/₈" Length between Webs 8 ¹/₄"

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 Multi Collar.

No. " Rings 4

Diar. of Thrust Shafts at bottom of Collars 8 ³/₈" No. of Collars 4

" " Forward Coupling 8 ³/₈" At Aft Coupling 8 ³/₈"

Diar. of Intermediate Shafting by Rule 7.858" Actual No. of Lengths

No. of Bolts, each Coupling Diar. at Mid Length Diar. of Pitch Circle

Diar. of Propeller Shafts by Rule 8.878" Actual 9 ¹/₁₆ 9 ¹/₈" At Couplings 9 ¹/₈"

Are Propeller Shafts fitted with Continuous Brass Liners? Yes.

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.

3 connecting rods
 3 piston rods
 3 slide rods
 6 ecc rods
 1 crank shaft
 1 thrust shaft
 1 propeller shaft

Final work.
Bl. 10/58.
V.L.
5.1.28.

[Faint handwritten notes and scribbles]

[Faint handwritten notes]



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No. of Blades each Propeller *4* Fitted or Solid? *Fitted.*
 Material of Blades *C. I.* Boss *C. I.*
 Diam. of Propellers *12-3* Pitch *10-9* Surface (each *48* S. ft.)
 Coefficient of Displacement of Vessel at $\frac{3}{4}$ Moulded Depth
 Crank Shafts Forged by *Life Forge Coy* Material *St.*
 „ Pins „ „ „ „
 „ Webs „ *Camarkshire L. Co.* „ *St.*
 Thrust Shafts „ *Life Forge Coy.* „ *St.*
 Intermed. „ „ *none* „ „
 Propeller „ „ *Life Forge Coy* „ „
 Crank „ Finished by *Swan Hunter.*
 Thrust „ „ „ „
 Intermed. „ „ „ „
 Propeller „ „ „ „

STAMP MARKS ON SHAFTS.

See p. 9.

SKETCH OF PROPELLER SHAFT.

*Same as 1258. Cartierdoc
 and Kingdoc 1236.*



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Same as 1258 + 1236.

PUMPS, ETC.

5/5 KuydoeNo. of Air Pumps one 88" Diar. 14" Stroke 17"Worked by Main or Independent Engines? MainNo. of Circulating Pumps one Diar. 12" Stroke 18"

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 2 Diar. 24" Stroke 17"

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 2 Diar. 22" Stroke 17"

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

Same as 1258 + 1236

5/5 Kuydoe

No. of Boilers one

Type Water-tube

Single or Double-ended Single

No. of Furnaces in each one

Type of Furnaces Water-tube

Date when Plan approved 1-11-24

Approval Working Pressure 180 lbs

Hydraulic Test Pressure 220 lbs

Date of Hydraulic Test 22-11-24

" " when Safety Valves set 1-3-28

Pressure at which Valves were set 182 lbs

Date of Accumulation Test Have taken

Maximum Pressure under Accumulation Test 180 lbs

Section of Draft Horizontal

Can Boilers be worked separately Yes

Station of Plates Shell

Stay Bars Yes

Tricks Yes

Furnaces Yes

Greatest Internal Diar. of Boilers 10-11-24

Length 10-11-24

Square Feet of Heating Surface and Boilers 100 sq ft

Diar. 10-11-24

No. of Boilers in each Boiler one

Material of Boilers Steel

No. of Water Cocks one

Test Cocks one

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Same as 1236 ~~1958~~.3/8 Kingdoc
BOILERS.

Works No. 1260.
 No. of Boilers Two. Type Cylindrical Multitubular
 Single or Double-ended Single.
 No. of Furnaces in each Two.
 Type of Furnaces Deighan
 Date when Plan approved 1-11-26.
 Approved Working Pressure 180 lbs.
 Hydraulic Test Pressure 320 lbs J.L. 3118. B.C. 22.12.27.
 Date of Hydraulic Test 22.12.27.
 " when Safety Valves set 4.3.28.
 Pressure at which Valves were set 185 lbs.
 Date of Accumulation Test none taken.
 Maximum Pressure under Accumulation Test ✓
 System of Draught Howdens Forced.
 Can Boilers be worked separately
 Makers of Plates Steel Coy of Scotland.
 " Stay Bars - do -
 " Rivets Rivet Bolt & Nut Coy.
 " Furnaces Deighan. @
 Greatest Internal Diam. of Boilers 10' 1 3/8"
 " " Length " 10' 9 7/16"
 Square Feet of Heating Surface each Boiler 1068 sq ft
 " " Grate " " 32 sq ft
 No. of Safety Valves each Boiler 2 Rule Diam. Actual 2" (High lift)
 Are the Safety Valves fitted with Easing Gear? Yp
 No. of Pressure Gauges, each Boiler one No. of Water Gauges one
 " Test Cocks " 3 " Salinometer Cocks one.

Are the Water Gauges fitted direct to the Boiler Shells or mounted on Taps?
 Are the Water Gauge Filler 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 Strokes of Shell Raising in each Boiler
 Plates in each Boiler
 Thickness of Shell Plates Approved
 in Boilers
 Are the Rivets Iron or Steel?
 Are the Longitudinal Seams Joint 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 Triple Riveted?
 No. of Rivets in a Pitch
 Pitch
 No. of Rows of Rivets in Centre Circumferential Seams
 Are these Seams Hand or Machine Riveted?
 Pitch
 Pitch
 No. of Rows of Rivets in Front End Circumferential Seams
 Are these Seams Hand or Machine Riveted?
 Pitch
 Pitch
 No. of Rows of Rivets in Back End Circumferential Seams
 Are these Seams Hand or Machine Riveted?
 Pitch
 Pitch
 No. of Rows of Rivets in their End Circumferential Seams
 Are these Seams Hand or Machine Riveted?
 Pitch
 Pitch

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

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

Are these Pipes connected to Boilers by Cocks or Valves? *Cocks.*

Are Blow-off Cocks or Valves fitted on Boiler Shells? *Back end plate.*

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

Thickness of End Plates in Steam Space Approved

in Boilers

Pitch of Steam Space Straps

Diar. of Straps Approved

in Boilers

Material

How are Straps Secured?

Diar. and Thickness of Loose Washers on End Plates

Riveted

Width of Doubling Straps

Thickness of MIDDLE BACK END PLATES Approved

in Boilers

Thickness of Doubling in Wide Spaces between Fireboxes

Pitch of Straps

Diar. of Straps Approved

in Boilers

Material

Are Straps fitted with Nut's outside?

Thickness of BACK END PLATES at Bottom Approved

in Boilers

Pitch of Straps at Wide Spaces between Fireboxes

Thickness of Doubling in

Thickness of FRONT END PLATES at Bottom Approved

in Boilers

No. of Rows of Rivets in Centre Circumferential Seams



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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 Backs 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 Diam. of Tubes

Thickness of Furnace Plates Approved

" " " " in Boilers

Smallest outside Diam. of Furnaces

Length between Tube Plates

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Pitch of screwed stays in G.C. Tubes

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. Sides

Threads per Inch

Diar. " Approved

" " " " in Boilers

Material "

Thickness of Combustion Chamber Backs Approved

" " " " in Boilers

Pitch of Screwed Stays in C.C. Backs

Threads per Inch

Diar. " Approved

" " " " 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

" " " " " "

" " " " " "

Size of Lower Flanges



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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 " "

External Diar. of Tubes

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

Thickness of Combustion Chamber Bottoms

Thickness of Furnace Water Approved

No. of Girders over each Wing Chamber

" " " Centre "

Depth and Thickness of Girders

Material of Girders

No. of Stays in each

Thickness of

No. of Tubes, each Boiler

Size of Lower Manholes

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 Boils
Thickness of Plates
Description of Seams in Boiler Crowns
Diar. of River Boils
Pitch
Width of Overlap
Height of Ribbed Crown above Fire Grate
Are Ribbed Crowns Flat or Dished?
External Radius of Dished Crowns
Thickness of Plates
No. of Crown Stays
Int. Diar.
Material
External Diar. of Ribbed at Top
Bottom
Thickness of Plates
No. of Water Tubes
Hgt. Diar.
Material of Water Tubes
Size of Manhole in Shell
Dimensions of Compensating Ring
Height outside each Boiler
Internal Diar.

SUPERHEATERS



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MAIN STEAM PIPES.

No. of Lengths	3		
Material	HD Steel		
Brazed, Welded or Seamless	Seamless		
Internal Diam.	3 1/2"		
Thickness	1/4"		
How are Flanges secured?	Screwed		
Date of Hydraulic Test	14.2.78		
Test Pressure	540 lbs.		
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			

EVAPORATORS

No.	
Type	
Makers	
Working Pressure	
Date of Test of Safety Valves under Steam	
Date of Test	
Test Pressure	
Temperature	

FEED WATER HEATERS

No.	
Type	
Makers	
Working Pressure	
Date of Test	
Test Pressure	
Temperature	

FEED WATER FILTERS

No.	
Type	
Makers	
Working Pressure	
Date of Test	
Test Pressure	
Temperature	



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REFRIGERATORS.

No. of Machines Capacity of each No. of Cylinders per Machine

Makers Main Working Valve

Description High Pressure Valve Low Pressure Valve

H.P. Piston Rings L.P. Piston Rings

Springs

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 Piston Crank Pin Piston Crank Pin Piston Crank Pin Piston

Propeller Shaft Propeller Condenser Piston Condenser Piston

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.
No. of Cylinders				
Capacity				
Current Absorbing or Discharge				
Height of Piston Valve System				
Position of Piston				
Main Piston Rings				
No. of Cranks in which Piston				
Particulars of Crank Pin				
Cranks				

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



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Total No. of Logs

Current required for Motor and Piston

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

Installation fitted by Brown Hunter Ltd. 10th Nov. 1904.

Capacity 110 Amps at 110 Volts 3% Voltage per Min.

Current Alternating or Continuous

Single or Double Wire System

Position of Dynamo

Main Switch Board

No. of Circuits to which switches are provided on Main Switch Board

Locations of Fuse Circuits—

Location	Number of Lights	Capacity of Fuse	Current Rating	Size of Conductor	Distance	Construction of Conductor	Insulation
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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? *870000* Ohms.

Is the Installation supplied with a Voltmeter?

" " " an Ampere Meter?

Date of Trial of complete Installation *4.3.98* Duration of Trial *6 hrs.*

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



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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? *Yes*

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

Surveyor. *Yes*

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?

Is the Installation supplied with a Voltmeter?

as a proper Motor?

Date of Trial of complete Installation *1.3.28*

Have all the requirements of Section 43 been satisfactorily carried out?

Are Cables fitted as required?

On Main Switch Board, in Cases of Main Circuit

On Low Voltage Auxiliary Circuit

Wherever a Cable is required in the

By 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*

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

Lavalduc

as ascertained by ^{us} _{me} from personal examination

J. Lundgren

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

Fees—

MAIN BOILERS.		£	s.	d.
H.S.	Sq. ft.	:	:	
G.S.	"	:	:	
DONKEY BOILERS.				
H.S.	Sq. ft.	:	:	
G.S.	"	:	:	
		£	:	:
ENGINES.				
L.P.C.	Cub. ft.	:	:	
		£	:	:
Testing, &c. ...		:	:	
		£	:	:
Expenses ...		:	:	
Total ...	£	:	:	

It is submitted that this Report be approved.

M. Green King
Chief Surveyor.

Approved by the Committee for the Class of M.B.S.* on the 22nd AUGUST, 1928

Fees advised

Fees paid



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