

No. 1758

THE BRITISH CORPORATION FOR THE SURVEY
AND
REGISTRY OF SHIPPING.

Report No.

1980

No. in Register Book

3311

" " S.S. SOUTHERN CHIEF

Makers of Engines

Smiths Dock Co. Ltd.

Works No.

295

Makers of Main Boilers

Richardsons Westgarth & Co.

Works No.

D169

Makers of Donkey Boiler

Works No.

MACHINERY



Lloyd's Register
Foundation

005453-005461-0041

No.

THE BRITISH CORPORATION FOR THE SURVEY

AND

REGISTRY OF SHIPPING.

Report No. No. in Register Book 3311

Received at Head Office 9th October 1926

Surveyor's Report on the Net Engines, Boilers, and Auxiliary Machinery of the Single Triple Screw Whaler

"Southern Chief"

Official No.

Port of Registry Liverpool

Registered Owners

Southern Whaling Co. Ltd.

Engines Built by

Quinton & Jacks Ltd.

at

South Bank-on-Sea

Main Boilers Built by

Richardsons Westgarth & Co. Ltd.

at

Hartlepool

Donkey " "

at

Date of Completion

9-26

First Visit 24-3-26

Last Visit

24-9-26

Total Visits 50

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RECIPROCATING ENGINES.

Works No. 295 No. of Sets 1 Description Triple Expansion, S.P. 3 cranks.

No. of Cylinders each Engine 3 No. of Cranks 3
 Diars. of Cylinders 16"-26"-43" Stroke 26"
 Cubic feet in each L.P. Cylinder 21.8

Are Spring-loaded Relief Valves fitted to Top and Bottom of each Cyl.? *yes.*

" " " each Receiver? *yes.*

Type of H.P. Valves, *slide piston*

" 1st L.P. "

" 2nd L.P. "

" L.P. "

" Valve Gear *slide*

" Condenser *surface*

Diameter of Piston Rods (plain part) *4 1/2"*

Screw part (bottom of thread) *3.16*

Material " *M. Steel.*

Diar. of Connecting Rods (smallest part) *4 1/4"*

Material *M.S.*

" Crosshead Gudgeons *4 3/4"*

Length of Bearing *5 3/16"*

Material " *M.S.*

No. of Crosshead Bolts (each) *4*

Diar. over Thrd. *2 1/8"*

Thrds. per inch *8*

Material *M.S.*

" Crank Pin " *2*

" *2 5/8"*

" *6*

" " *"*

" Main Bearings *6*

Lengths *10 7/8"*

" Bolts in each *2*

Diar. over Thread *2 3/8"*

Threads per inch *6*

Material *M.S.*

" Holding Down Bolts, each Engine *20*

Diar. *1 1/4"*

No. of Metal Chocks *20*

Are the Engines bolted to the Tank Top or to a Built Seat? *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 *Smiths, Wallenda Forge.*

Piston " " *Yip Forge Co.*

Crossheads, " " *Smiths, Wallenda Forge.*

Connecting Rods, Finished by *Smiths, Rock & Co. Ltd.*

Piston " " *"*

Crossheads, " " *"*

Date of Harbour Trial *16-9-26*

" Trial Trip *22-9-26*

Trials run at *Whitley Bay, measured mile.*

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

If so, what was the I.H.P.? *1215*

Revs. per min. *149*

Pressure in 1st I.P. Receiver, *6 1/2* lbs., 2nd L.P., *12.5* lbs., Vacuum, *26* ins.

Speed on Trial *13 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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Works No.	Type of Turbines
No. of H.P. Turbines	No. of L.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?

Diam. 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			

Revol. per min. of H.P. Turbines at Full Power	S.H.P.
100	100
150	150
200	200
250	250
300	300
350	350
400	400
450	450
500	500
550	550
600	600
650	650
700	700
750	750
800	800
850	850
900	900
950	950
1000	1000

_____ 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 Revols. per min.	S.H.P.
10.0	10.0	10.0	10.0
10.5	10.5	10.5	10.5
11.0	11.0	11.0	11.0
11.5	11.5	11.5	11.5
12.0	12.0	12.0	12.0
12.5	12.5	12.5	12.5
13.0	13.0	13.0	13.0
13.5	13.5	13.5	13.5
14.0	14.0	14.0	14.0
14.5	14.5	14.5	14.5
15.0	15.0	15.0	15.0
15.5	15.5	15.5	15.5
16.0	16.0	16.0	16.0
16.5	16.5	16.5	16.5
17.0	17.0	17.0	17.0
17.5	17.5	17.5	17.5
18.0	18.0	18.0	18.0
18.5	18.5	18.5	18.5
19.0	19.0	19.0	19.0
19.5	19.5	19.5	19.5
20.0	20.0	20.0	20.0
20.5	20.5	20.5	20.5
21.0	21.0	21.0	21.0
21.5	21.5	21.5	21.5
22.0	22.0	22.0	22.0
22.5	22.5	22.5	22.5
23.0	23.0	23.0	23.0
23.5	23.5	23.5	23.5
24.0	24.0	24.0	24.0
24.5	24.5	24.5	24.5
25.0	25.0	25.0	25.0
25.5	25.5	25.5	25.5
26.0	26.0	26.0	26.0
26.5	26.5	26.5	26.5
27.0	27.0	27.0	27.0
27.5	27.5	27.5	27.5
28.0	28.0	28.0	28.0
28.5	28.5	28.5	28.5
29.0	29.0	29.0	29.0
29.5	29.5	29.5	29.5
30.0	30.0	30.0	30.0
30.5	30.5	30.5	30.5
31.0	31.0	31.0	31.0
31.5	31.5	31.5	31.5
32.0	32.0	32.0	32.0
32.5	32.5	32.5	32.5
33.0	33.0	33.0	33.0
33.5	33.5	33.5	33.5
34.0	34.0	34.0	34.0
34.5	34.5	34.5	34.5
35.0	35.0	35.0	35.0
35.5	35.5	35.5	35.5
36.0	36.0	36.0	36.0
36.5	36.5	36.5	36.5
37.0	37.0	37.0	37.0
37.5	37.5	37.5	37.5
38.0	38.0	38.0	38.0
38.5	38.5	38.5	38.5
39.0	39.0	39.0	39.0
39.5	39.5	39.5	39.5
40.0	40.0	40.0	40.0
40.5	40.5	40.5	40.5
41.0	41.0	41.0	41.0
41.5	41.5	41.5	41.5
42.0	42.0	42.0	42.0
42.5	42.5	42.5	42.5
43.0	43.0	43.0	43.0
43.5	43.5	43.5	43.5
44.0	44.0	44.0	44.0
44.5	44.5	44.5	44.5
45.0	45.0	45.0	45.0
45.5	45.5	45.5	45.5
46.0	46.0	46.0	46.0
46.5	46.5	46.5	46.5
47.0	47.0	47.0	47.0
47.5	47.5	47.5	47.5
48.0	48.0	48.0	48.0
48.5	48.5	48.5	48.5
49.0	49.0	49.0	49.0
49.5	49.5	49.5	49.5
50.0	50.0	50.0	50.0
50.5	50.5	50.5	50.5
51.0	51.0	51.0	51.0
51.5	51.5	51.5	51.5
52.0	52.0	52.0	52.0
52.5	52.5	52.5	52.5</

Turbine Spindles forged by

„ Wheels forged or cast by

Reduction Gear Shafts forged by

" Wheels forged or cast by _____

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Speed on Trial	Knots.	Propeller Revols. per min.
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PUMPS, ETC.

No. of Air Pumps 1 Diar. 1'-2 1/2" Stroke 1'-1 1/2"

Worked by Main or Independent Engines? *Main engines.*

No. of Circulating Pumps 1 Diar. Stroke

Type of " *Centrifugal.*

Diar. of " Suction from Sea

Has each Pump a Bilge Suction with Non-return Valve? *yes.* Diar. 5'-2"

What other Pumps can circulate through Condenser? *H. S. pump.*

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 2 Diar. 8 1/2" Stroke 18"

What other Pumps can feed the Boilers? *H. S. Donkey.*

No. of Bilge Pumps on Main Engine 2 Diar. 3" Stroke 13 1/2"

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

No. of Independent Bilge Pumps 2

What other Pumps can draw from the Bilges? *H. S. Donkey.*

Are all Bilge Suctions fitted with Roses? *yes.*

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

No. of Boilers 1

Single or Double-ended

No. of Furnaces in each

Type of Furnace

Date when first approved

Approved Working Pressure

Hydraulic Test Pressure

Date of Hydraulic Test

" when Safety Valve set

Pressures at which Valves were set

Date of Accumulation Test

Maximum Pressure under Accumulation Test

System of Drafting

Can boilers be worked separately?

Makers of Boilers

"

"

"

"

"

"

"

"

"

"

"

"

"



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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

Rule Diar.

Actua!

Are the Safety Valves fitted with Easing Gear?

No. of Pressure Gauges, each Boiler

No. of Water Gauges

Test Cocks

Salinometer Cocks

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Thickness of End Plates in Steam Space Approved

 $\frac{1}{32}$ "

" " " " in Boilers

 $\frac{1}{32}$ "

Pitch of Steam Space Stays

1'-9" x 1'-9 1/2"

Diam. " " " " Approved

3 1/2" Threads per Inch 6

" " " " in Boilers

3 1/2" 6

Material of " " "

Steel

How are Stays Secured?

Double nuts washers.

Diam. and Thickness of Loose Washers on End Plates

12 1/2" x 1"

" " Riveted " " "

Width " " Doubling Strips

Thickness of Middle Back End Plates Approved

3/32"

" " " " in Boilers

3/32"

Thickness of Doublings in Wide Spaces between Fireboxes

Pitch of Stays at

17/8" 14" x 8 5/8"

Diam. of Stays Approved

9 Threads per Inch 9

" " in Boilers

17/8" 9

Material "

Steel

Are Stays fitted with Nuts outside?

Yes.

Thickness of Back End Plates at Bottom Approved

3/32"

" " " " in Boilers

3/32"

Pitch of Stays at Wide Spaces between Fireboxes

14" x 8 7/8"

Thickness of Doublings in

Thickness of Front End Plates at Bottom Approved

7/8"

" " " " in Boilers

7/8"

No. of Longitudinal Stays in Spaces between Furnaces

1

Diam. of Stays Approved

Threads per Inch

" " " " 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

" " " " in Boilers

Thickness of Stay Tubes

" " " " in Boilers

Material Diam. of Tubes

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

" " " " in Boilers

Material Diam. of Tubes



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Diarr. of Stays Approved	3"	Threads per Inch	9
" " in Boilers	3"	"	9
Material "	Steel		

Thickness of Front Tube Plates Approved	$\frac{3}{8}$ "
" " " " in Boilers	$\frac{3}{8}$ "
Pitch of Stay Tubes at Spaces between Stacks of Tubes	$13\frac{1}{2}$ " x $7\frac{1}{4}$ "
Thickness of Doublings in " " "	$\frac{1}{2}$ "
" Stay Tubes at " " "	$\frac{1}{2}$ " $\frac{3}{8}$ "

Are Stay Tubes fitted with Nuts at Front End ?

Thickness of Back Tube Plates Approved $25/32$ "

" " " in Boilers $25/32$ "

Pitch of Stay Tubes in Back Tube Plates $9\frac{1}{16}$ " \times $7\frac{1}{2}$ "

" Plain " $3\frac{5}{8}$ " \times $3\frac{3}{4}$ "

Thickness of Stay Tubes $\frac{1}{2}$ " $\frac{3}{8}$ " $\frac{5}{16}$ "

" Plain " $8\frac{1}{2}$ "

External Diam. of Tubes $2\frac{1}{2}$ "

Material Iron

Thickness of Furnace Plates Approved $5/8"$

" " " in Boilers $5/8"$

Smallest outside Diam. of Furnaces $3'-8\frac{3}{4}"$

Length between Tube Plates $8' 3"$

Width of Combustion Chambers (Front to Back) $3'-17/16"$

Thickness of " " Tops Approved $1/16"$

" " " in Boilers $1/16"$

Pitch of Screwed Stays in O.C. Tops $9\frac{1}{2}" \times 8\frac{1}{2}"$

Diar. of Screwed Stays Approved

Threads per Inch

9

" " " in Boilers

"

9

Material " "

steel.

Thickness of Combustion Chamber Sides Approved

2 1/32 "

" " " " in Boilers

2 1/32 "

Pitch of Screwed Stays in C.O. Sides

8 1/2 " x 8 1/4 "

Diar. " " Approved

Threads per Inch

9

" " " in Boilers

"

9

Material " "

steel.

Thickness of Combustion Chamber Backs Approved

2 1/32 "

" " " " in Boilers

2 1/32 "

Pitch of Screwed Stays in C.O. Backs

8 5/8 " x 8 1/4 "

Diar. " " Approved

Threads per Inch

9

" " " in Boilers

"

9

Material " "

steel.

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

yep.
13/16 "

Thickness of Combustion Chamber Bottoms

No. of Girders over each Wing Chamber

3

" " " Centre "

2

Depth and Thickness of Girders

10 " x 1 5/8 "

Material of Girders

steel.

No. of Stays in each

3

No. of Tubes, each Boiler

439

Size of Lower Manholes

16 x 12 "

VERTICAL DONKEY BOILERS

No. of Boilers

Greatest Int. Diam.

Height of Boiler Crown above Fire Grate

Are Boiler Crowns Flat or Rished?

Internal Radius of Dished Heads

Positioning of Stays in Boiler Crown

Diam. of Water Tubes

Height of Waterbox Crown above Fire Grate

Are Waterbox Crowns Flat or Rished?

Internal Radius of Dished Crowns

No. of Crown Stays

External Diam. of Waterbox at Top

No. of Water Tubes

Material of Water Tubes

Size of Manhole in Shell

Dimensions of Combustion Head

Heating surface, each Boiler

SUPERHEATERS

Description of Superheaters

Where situated?

Which Boilers are connected to Superheaters?

Can Superheaters be shut off while Boilers are working?

No. of Water Tubes in each Superheater

Material of Water Tubes

Date of last inspection

Pressure on Water



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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 Thickness of Plates

Description of Seams in Boiler Crowns

Diam. 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 Diam. Material

External Diam. of Firebox at Top Bottom Thickness of Plates

No. of Water Tubes Ext. Diam. 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 Diam.

Are " " fitted with Basing Gear?

Date of Hydraulic Test Test Pressure

Date when Safety Valves set Pressure on Valves

MAIN STEAM PIPES

No. of Pipes

Material

Height, Width or Diameter

Internal Diam.

Thickness

How are Flanges secured?

Date of Hydraulic Test

Test Pressure



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MAIN STEAM PIPES.

No. of Lengths	1	2
Material	copper.	copper.
Brazed, Welded or Seamless	Solid	drawn.
Internal Diam.	4"	4"
Thickness	5 w.g.	5 w.g.
How are Flanges secured?	braked.	
Date of Hydraulic Test	6-9-26	13-9-26
Test Pressure	400 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

THOMAS L. LLOYD'S REGISTER
General Service Company, 6 x 4 1/2 x 6
Pair of Feed Water Heaters
No. 1
Type
Material
Working Pressure
Test Pressure
Date of Test

FEED WATER FILTERS.



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EVAPORATORS.

No.	Type	Makers	Working Pressure	Test Pressure	Date of Test	Tons per Day
1	Surface Feed Heater, Exhaust Steam	Caird & Rayner	200 lbs.	400 lbs.		

FEED WATER HEATERS.

No.	Type	Makers	Working Pressure	Test Pressure	Date of Test
1	Surface Feed Heater, Exhaust Steam	Caird & Rayner	200 lbs.	400 lbs.	

FEED WATER FILTERS.

No.	Type	Makers	Working Pressure	Test Pressure	Date of Test	Size
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LIST OF DONKEY PUMPS.

Thos. Lamont's Vertical Duplex
General Service Donkey, 6" x 4 1/4" x 6"
1 Pair. Wells Feed pumps 6" x 8 1/2" x 18"



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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.

[illegible]

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

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Installation Fitted by *R. Pickering & Son Ltd.*
 No. and Description of Dynamo *1 Compound Wound*
 Makers of Dynamos *Lundell & Co. Ltd.*
 Capacity *45* Amperes, at *110* Volts, *340* Revols. per Min.
 Current Alternating or Continuous *Continuous.*
 Single or Double Wire System *Double.*
 Position of Dynamos *Starting Platform.*
 „ Main Switch Board „

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

Particulars of these Circuits:—

Circuit.	Number of Lights.	Candle Power.	Current Required. Amps.	Size of Conductor.	Current Density.	Conductivity of Conductor.	Insulation Resistance per Mile.
<i>Forward.</i>	<i>17</i>	<i>630 watts</i>	<i>5.1</i>	<i>7/036</i>	<i>.1389</i>	<i>100%</i>	<i>900000</i>
<i>Accommodation</i>							
<i>Navigation.</i>	<i>10</i>	<i>500 watts</i>	<i>5</i>	<i>7/036</i>	<i>.1389</i>		
<i>Engine Room</i>	<i>19</i>	<i>570 watts</i>	<i>5.7</i>	<i>7/036</i>	<i>.1389</i>		
<i>& Aft.</i>							
<i>Wireless</i>			<i>15</i>	<i>7/064</i>	<i>.1389</i>		

Total No. of Lights *46* No. of Motors driving Fans, &c. No. of Heaters

Current required for Motors and Heaters

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. 11.044 S.W.G., Largest, No. 7.064 S.W.G.

How are Conductors in Engine and Boiler Spaces protected? *Lead covered / Armoured.*

„ Saloons, State Rooms, &c., „ ?

What special protection is provided in the following cases?—

- (1) Conductors exposed to Heat or Damp *Had covered / Armoured*
- (2) " " passing through Bunkers or Cargo Spaces *Had covered / Armoured*
- (3) " " Deck Beams or Bulkheads *Had covered / Armoured*

is unimpaired? *none*

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

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? *Yes*

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

Has the Insulation Resistance over the whole system been tested? *yes*

What does the Resistance amount to ? 30000 Ohms

Is the Installation supplied with a Voltmeter?

" " " an Ampere Meter? *yes*

Date of Trial of complete Installation 22-9-76 Duration of Trial 6 hours

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

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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 construction has been satisfactorily installed?

Has the insulation Resistance over the whole system been tested?

What does the Resistance amount to?

Is the insulation supplied with a thin dielectric?

Is the insulation supplied with a thin dielectric?

Date of Test of complete installation *22-9-22*

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

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.

SOUTHERN CHIEF

as ascertained by *me* from personal examination

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

Fees—

MAIN BOILERS.

	£	s.	d.
H.S. <i>2890</i> Sq. ft.	:	:	:
G.S. <i>61</i> "	:	:	:

DONKEY BOILERS.

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

ENGINES.

	£	s.	d.
L.P.C. <i>21.8</i> Cub. ft.	:	:	:
	£	:	:

	£	s.	d.
Testing, &c. ...	:	:	:
	£	:	:

	£	s.	d.
Expenses ...	:	:	:
Total ...	£	:	:

It is submitted that this Report be approved,

W. Foster King
Chief Surveyor.

Approved by the Committee for the Class of M.B.S.* on the *20th October 1926*

Fees advised

Fees paid



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Lloyd's Register
Foundation
Secretary

GENERAL CONSTRUCTION

Form

MALE BODIES: All the bodies of the deceased are to be examined and the results of the examination to be reported to the coroner.

H.S. 2890

D.S. 11

DOCKET BODIES

H.S. 2890

D.S. 11

FURNITURE

8.12

L.E.D. 21.8

Testing &c

L.E.D. 21.8

Total

It is submitted that this Report be approved.

[Signature]

and have been so done as to be ready for use in the event of any further examination.

[Signature]

Approved by the Committee for the Class of M.E.S. 2 on the 22nd of 1920.

SOUTHERN CHIEF

Form advised

Form paid

[Signature]

the for investigation should be in the hands of the
during and Registry of Shipping



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