

No. 2352

THE BRITISH CORPORATION FOR THE SURVEY
AND
REGISTRY OF SHIPPING.

Report No. 2335 No. in Register Book 3737

S.S.

EL-HAK.

Makers of Engines

ALFVENS DIESEL Co
STOCKHOLM SWEDEN

Works No.

Makers of Main Boilers

NONE

Works No.

Makers of Donkey Boiler

NONE.

Works No.

MACHINERY.



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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 25th November 1929

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

Official No. Port of Registry

Registered Owners

Engines Built by

at

Main Boilers Built by

at

Donkey

at

Date of Completion

First Visit

Last Visit

Total Visits



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RECIPROCATING ENGINES.

Works No. **50125** No. of Sets DescriptionNo. of Cylinders each Engine **6** No. of Cranks **6**
Diars of Cylinders **420** Stroke **720**

Cubic feet in each L.P. Cylinder

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

" " each Receiver?

Type of H.P. Valves,

1st L.P. "

2nd L.P.,

L.P. "

" Valve Gear

" Condenser

Cooling Surface sq. ft.

Diameter of Piston Rods (plain part) **130^{mm}** Screwed part (bottom of thread) **74^{mm}**Material " **To Class.**Diar. of Connecting Rods (smallest part) **130^{mm}** Material **To Class.**" Crosshead Gudgeons **220^{mm}** Length of Bearing **170^{mm}** Material **To Class.**No. of Crosshead Bolts (each) **4** Diar. over Thrd. **42** Thrds. per inch **11** Material **K₂ = 5500**" Crank Pin " **2** " **52** " **11** " **P = 20%**" Main Bearing: Lengths **430 - rev 416 rev 488**" Bolts in each **2** Diar. over Thread **2** Threads per inch **4 1/2** Material **0.35C**" Holding Down Bolts, each Engine **56** Diar. **1 5/8"** 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

MOTALA

Piston " "

Crossheads,

Connecting Rods, Finished by

ATLAS DIESEL

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.?

Revol. per min.

Pressure in 1st L.P. Receiver,

lbs., 2nd L.P.,

lbs., L.P.,

lbs., Vacuum,

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.

Revol. per min.

Estimated Speed



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TURBINE ENGINES

Works No. Type of Turbines

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

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

Is Single or Double Reduction Gear employed?

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. " "

" " 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 MACHINERY, DESCRIPTION OF INSTALLATION

No. of Turbo-Generating Sets

Capacity of each

Type of Turbines employed

Description of Generators

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 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.

Turbine Spindles forged by

" Wheels forged or cast by

Reduction Gear Shafts forged by

" Wheels forged or cast by



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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.

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SHAFTING.

Are the Crank Shafts Built or Solid?

Solid.

No. of Lengths in each

2

Angle of Cranks

60°

Diar. by Rule

Actual

275

In Way of Webs

275

" of Crank Pins

275

Length between Webs

280

Greatest Width of Crank Webs

375

Thickness

152

Least

Diar. of Keys in Crank Webs

Length

" Dowels in Crank Pins

Length

Screwed or Plain

No. of Bolts each Coupling

8

Diar. at Mid Length

58

Diar. of Pitch Circle

390

Greatest Distance from Edge of Main Bearing to Crank Web

23

Type of Thrust Blocks

Michell.

No. " Rings

1

Diar. of Thrust Shafts at bottom of Collars

260 mm

No. of Collars

1

" " Forward Coupling

315

At Aft Coupling

450

Diar. of Intermediate Shafting by Rule

Actual

No. of Lengths

No. of Bolts, each Coupling

6

Diar. at Mid Length

Diar. of Pitch Circle

Diar. of Propeller Shafts by Rule

Actual

At Coupling

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.

*See plan MPA 301 and MPA 302
approved by B.C.*



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No. of Blades each Propeller

Fitted or Solid?

Material of Blades

Boss

Diam. of Propellers

Pitch

Surface (each

S. ft.)

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

Crank Shafts Forged by

MOTALA

Material

For Class

Pins

"

Webs

"

Thrust Shafts

"

Intermed.,

"

Propeller

"

Crank " Finished by

ATLAS-DIESEL

Thrust

"

Intermed.,

"

Propeller

"

STAMP MARKS ON SHAFTS.

SKETCH OF PROPELLER SHAFT.

No. of Air Pumps

200

230

Stroke

400 L.P.
200 I.P.
112 H.P.

Diam.

1

Worked by Main or Independent Engines?

by main engine

Stroke

Diam.

2

No. of Circulating Pumps

Type of

Diam. of

Butterfly pumps about 1000 ft. for water pipe

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

What other Pumps can circulate through Condenser?

Stroke

Diam.

No. of Feed Pumps on Main Engines

Are Spring-loaded Relief Valves fitted to each Pump?

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

Stroke

Diam.

No. of Independent Feed Pumps

What other Pumps can feed the Boilers?

200

Stroke

110

Diam.

1

No. of Air Pumps on Main Engines

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

No. of Independent Air Pumps

What other Pumps can draw from the Bilges?

Are all High Suctions fitted with Boxes?

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

Are all Sea Connections made with Valves and are the ship's valves?

Are they placed so as to be easily accessible?

Are the Bilges, etc., so arranged as to prevent the Pump from drawing?

Are the Bilges, etc., so arranged as to prevent the Pump from drawing?

Are all Bilges, etc., so arranged as to prevent the Pump from drawing?

on the Quay?

PUMPS, ETC.

No. of Air Pumps *1* Diar. *400 L.P.* Stroke *500*
 290 I.P. }
 115 H.P. } *230*

Worked by Main or Independent Engines?

by main engine

No. of Circulating Pumps *2* Diar. — Stroke —

Type of " *Centrif. pumps elect. driven*

Diar. of " *(Suction from Sea) 100 in for suction pipe*

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 *1* Diar. *110* Stroke *220*

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

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 Draining

Can Boilers be worked separately?

Material of Plates

Stay Bars

Stays

Furnaces

Greatest Internal Diam. of Boilers

Length

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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

Are the Water Gauges fitted direct to the Boiler shells or mounted on Flanges?

Are the Water Gauges fitted direct to the Boiler shells or connected by Pipes?

Are there Pipes connected to Boilers by Hooks or Valves?

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

No. of Stanches or Stays fitting in each Boiler

Plates in each Stanch

Thickness of Steel Plates Approved

" in Boilers

Are the Rivets Iron or Steel?

Are the Longitudinal seams fitted or Lap Joints?

Are the Butt Straps Single or Double?

Are the Double Butt Straps of equal width?

Thickness of outside Butt Straps

" "

Are Longitudinal seams fitted or Machine Riveted?

Are Butt Straps, Double or Triple Riveted?

No. of Rivets in a Triple

Diam. of Rivet Holes

No. of Rows of Rivets in Centre Longitudinal Seams

Are these Seams fitted or Machine Riveted?

Diam. of Rivet Holes

No. of Rows of Rivets in Front and Back Longitudinal Seams

Are these Seams fitted or Machine Riveted?

Diam. of Rivet Holes

No. of Rows of Rivets in Back and Front Longitudinal Seams

Are these Seams fitted or Machine Riveted?

Diam. of Rivet Holes

No. of Rows of Rivets in Back and Front Longitudinal Seams

Diam. of Rivet Holes



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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

Thickness of Shell Plates in Steam Space Approved

" " in Boilers

Pitch of Steam Space Straps

Diar. " " Approved

" " in Boilers

Material of " "

How are Straps Secured?

Diar. and Thickness of Loose Washers on End Plates

" " Riveted " "

" " Doubling Straps " "

Thickness of Middle Back End Plates Approved

" " in Boilers

Thickness of Doublings in Wide Spaces between Ties

Pitch of Straps as

Diar. of Straps Approved

" " in Boilers

Material "

Are Straps fitted with Nuts outside?

Thickness of Neck End Plates at Bottom Approved

" " in Boilers

Pitch of Straps as Wide Spaces between Ties

Thickness of Doublings in

Thickness of Front End Plates at Bottom Approved

" " in Boilers

No. of Rows of Rivets in Front End 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

Dist. of Stays Approved

" " 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

" " Plate

Thickness of Stay Tubes

" " Plate

External Dist. of Tubes

Material

Thickness of Furnace Plates Approved

" " " " in Boilers

Smallest outside Dist. of Furnaces

Length between Tube Plates

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Width of Combustion Chambers (Front to Back)
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Diam. 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 Diam. of Tubes

Material ..

Thickness of Furnace Plates Approved

.. .. in Boilers

Smallest outside Diam. 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

.. .. in Boilers

Material ..

Thickness of Combustion Chamber Sides Approved

.. .. in Boilers

Pitch of Screwed Stays in C.C. Sides

Diam. .. Approved .. Threads per Inch

.. .. in Boilers

Material ..

Thickness of Combustion Chamber Backs Approved

.. .. in Boilers

Pitch of Screwed Stays in C.C. Backs

Diam. .. Approved .. Threads per Inch

.. .. in Boilers

Material ..

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

Thickness of Combustion Chamber Bottoms

No. of Girders over each Wing Chamber

.. .. Centre

Depth and Thickness of Girders

Material of Girders

No. of Stays in each

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Diam. 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

Diam. " " Approved Threads per Inch

" " " in Boilers

Material " "

Thickness of Combustion Chamber Backs Approved

" " " " in Boilers

Pitch of Screwed Stays in C.O. Backs

Diam. " " 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.

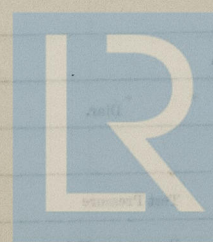
No. of Boilers
Type
Greatest Int. Diam.
Height
Height of Boiler Crown above Fire Grate
Are Boiler Crowns Flat or Dished?
Internal Radius of Dished Ends
Description of Stays in Boiler Crowns
Pitch of Stay Holes
Height of Stay Holes
Height of Boiler Crowns above Fire Grate
Are Boiler Crowns Flat or Dished?
Internal Radius of Dished Crowns
Diam. of Crown Stays
Material
External Diam. of Tubes at Top
Bottom
Thickness of Plates
No. of Water Tubes
Int. Diam.
Thickness
Material of Water Tubes
Size of Manhole in Shell
Dimensions of Connecting Ring
Heating surface, each Boiler
Grate Surface

SUPERHEATERS.

Description of Superheaters

Where situated?

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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.



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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

PUMP-DRIVEN EVAPORATORS.

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



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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.

No. of Top End Bolts.	No. of Bottom End Bolts.	No. of Cylinder Cover Bolts.
" Coupling Bolts	" Main Bearing Bolts	" Valve Chest "
" Joint Ring Bolts	" Feed Pump Valves	" High Pump Valves
" I.P. Piston Rings	" I.P. Piston Rings	" "
" " Springs	" " Springs	" " Springs
" Safety Valve "	" Live Bars	" Feed Check Valves
" Piston Rods	" Connecting Rods	" Valve Spindles
" Air Pump Rods	" Air Pump Rods	" Air Pump Valves
" Oil "	" Oil "	" Oil "
" Crank Shafts	" Crank Pin Bolts	" Crosshead Bolts
" Propeller Shafts	" Propellers	" Propeller Bolts
" Boiler Tubes	" Condenser Tubes	" Condenser Fittings

OTHER ARTICLES OF STEEL GEAR—



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OTHER ARTICLES OF SPARE GEAR:—

See Spare Part list approved
by B. C.

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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 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.

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

Duration of Trial

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

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GENERAL CONSTRUCTION.

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

Approved Plans?

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

Surveyor.

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

Is the Workmanship throughout thoroughly satisfactory?

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

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

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,

Chief Surveyor.

Approved by the Committee for the Class of M.B.S.* on the

Fees advised

Fees paid



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