

No. 2016

THE BRITISH CORPORATION FOR THE SURVEY
AND
REGISTRY OF SHIPPING.

Report No. *1848* No. in Register Book *3159*

T.S.S. *"CATALA"*

Makers of Engines *CAMPBELL & CALDERWOOD LTD*

Works No. *1033*

Makers of Main Boilers *WALLSEND SUBWAY & ENG. CO LTD*

Works No. *—*

Makers of Donkey Boiler *NONE*

Works No. *—*

MACHINERY



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Foundation

03778-003787-0024

No.

THE BRITISH CORPORATION FOR THE SURVEY
AND
REGISTRY OF SHIPPING.

Report No. 1848 No. in Register Book 3159

Received at Head Office 30th May 1925

Surveyor's Report on the **Two Engines, Boilers, and Auxiliary
Machinery of the ^{Single Triple} ~~Twin Quadruple~~ Screw Steamer**

"CATALA"

Official No.

Port of Registry VANCOUVER B.C.

Registered Owners THE UNION STEAMSHIP CO^o OF

BRITISH COLUMBIA.

Engines Built by MESSRS. CAMPBELL & CALDWELL LTD

at PRISLEY

Main Boilers Built by WALLSEND SLIPWAY & ENG CO LTD

at WALLSEND

Donkey " "

at

Date of Completion 27.5.25.

First Visit 17.10.24. Last Visit 26.5.25. Total Visits 3A



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 —

„ 1st „ Wheel — } Width — Pitch of Teeth —

Estimated Pressure per lineal inch —

Diam. of 2nd Reduction Pinion —

„ 2nd „ Wheel — } Width — Pitch of Teeth —

Estimated Pressure per lineal inch —

Revs. per min. of H.P. Turbines at Full Power — S.H.P. —

„ „ 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 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 —

DESCRIPTION OF INSTALLATION.

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 —

„ 1st „ Wheel — } Width — Pitch of Teeth —

Estimated Pressure per lineal inch —

Diam. of 2nd Reduction Pinion —

„ 2nd „ Wheel — } Width — Pitch of Teeth —

Estimated Pressure per lineal inch —

Revs. per min. of Generators at Full Power —

„ „ Motors —

„ „ 1st Reduction Shaft —

„ „ 2nd „ —

„ „ Propeller Shaft —

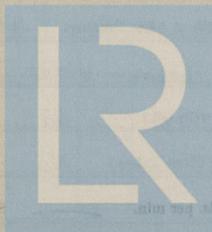
Total Shaft Horse Power —

Date of Harbour Trial —

„ Trial Trip —

Trials run at —

Speed on Trial — Knots. Propeller Revs. per min. — S.H.P. —



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SHAFTING.

Are the Crank Shafts Built or Solid? **BUILT**

No. of Lengths in each **ONE.** Angle of Cranks **120°**

Diar. by Rule **8.25** Actual **8½"** In Way of Webs **8⅞"**

" of Crank Pins **8¾"** Length between Webs **11"**

Greatest Width of Crank Webs **16"** Thickness **5¼"**

Least " " **13"** " **5¼"**

Diar. of Keys in Crank Webs **1½"** Length **4"**

" Dowels in Crank Pins **1"** Length **3½"** Screwed or Plain **PLAIN**

No. of Bolts each Coupling **6** Diar. at Mid Length **2"** Diar. of Pitch Circle **12½"**

Greatest Distance from Edge of Main Bearing to Crank Web **¾"**

Type of Thrust Blocks **HORSE SHOE TYPE.**

No. " Rings **6.**

Diar. of Thrust Shafts at bottom of Collars **8½"** No. of Collars **6**

" " Forward Coupling **8½"** At Aft Coupling **8½"**

Diar. of Intermediate Shafting by Rule **7.8** Actual **8¾"** No. of Lengths **ONE**

No. of Bolts, each Coupling **6** Diar. at Mid Length **2"** Diar. of Pitch Circle **12½"**

8¾" EFFECTIVE DIA.

Diar. of Propeller Shafts by Rule **8.75** Actual **9⅞" CONE** At Couplings **8½" LOOSE COUPLING**

Are Propeller Shafts fitted with Continuous Brass Liners? **YES.**

Diar. over Liners **9⅞" 10¼"** Length of After Bearings **4'-0½"**

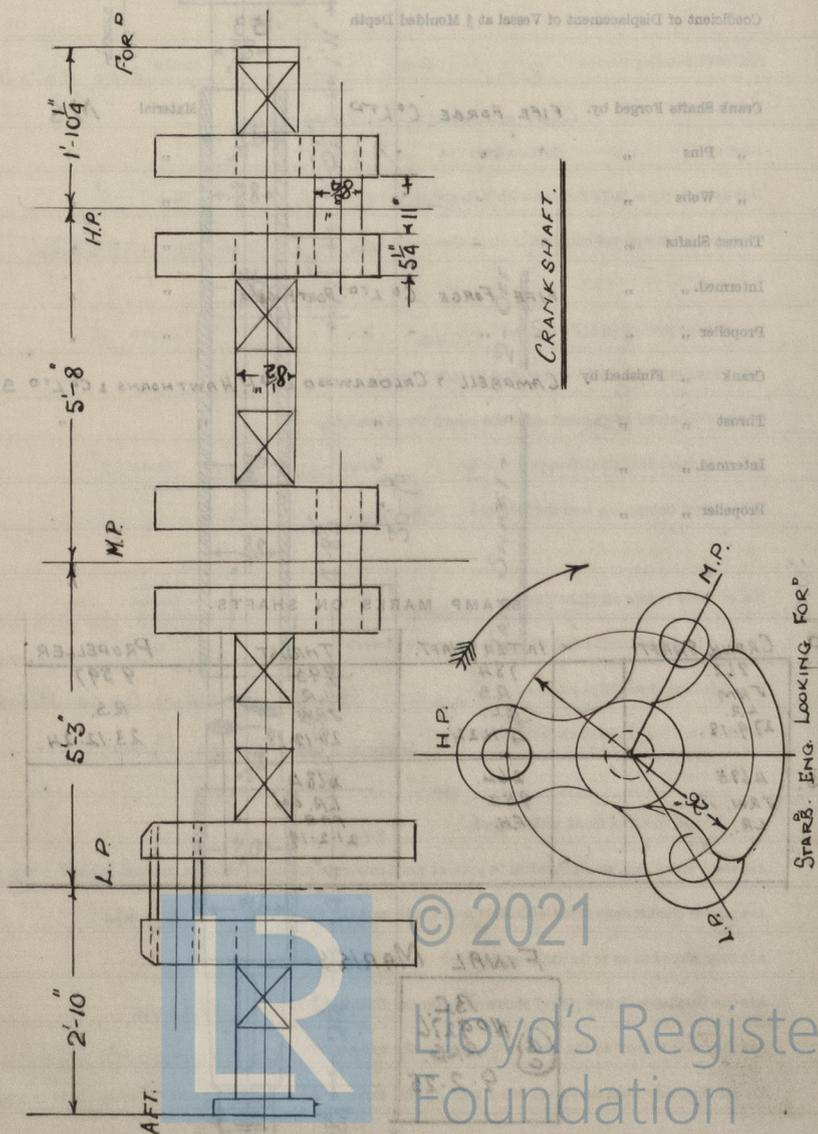
Of what Material are the After Bearings composed? **LIGNUM VITAE.**

Are Means provided for lubricating the After Bearings with Oil? **NO**

" " to prevent Sea Water entering the Stern Tubes? **NO**

If so, what Type is adopted? **-**

SKETCH OF CRANK SHAFT.



BOILERS.

Works No. **BOILERS EX TSS "CHEAM"**

No. of Boilers **2** Type **YARROW TYPE WATER TUBE.**

Single or Double-ended **—**

No. of Furnaces in each **2 EXTERNALLY FIRED.**

Type of Furnaces **—**

Date when Plan approved **—**

Approved Working Pressure **200 lbs**

Hydraulic Test Pressure **350 lbs**

Date of Hydraulic Test **17-4-25**

" when Safety Valves set **15-5-25**

Pressure at which Valves were set **200 lbs**

Date of Accumulation Test **15-5-25**

Maximum Pressure under Accumulation Test **217 lbs.**

System of Draught **FORCED DRAUGHT HOWDENS SYSTEM**

Can Boilers be worked separately? **YES.**

Makers of Plates **—**

" Stay Bars **—**

" Rivets **—**

" Furnaces **—**

Greatest Internal Diam. of Boilers **4'-2"**

" " Length " **10'-11"**

Square Feet of Heating Surface each Boiler **3500**

" " Grate " " **65 sq**

No. of Safety Valves each Boiler **2** Rule Diam. **Actual 3"**

Are the Safety Valves fitted with Easing Gear? **YES.**

No. of Pressure Gauges, each Boiler **2** No. of Water Gauges **2**

" Test Cocks **—** " Sallinometer Cocks **—**

FIRST TEST

AFT
BOILER

N^o 2608
B.C. TEST
353 lbs
20.12.18
H.N.

FORP
BOILER.

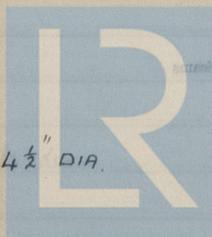
N^o 2605
B.C. TEST
393 lbs
12.12.18
J.M.S.

SECOND TEST.

B.C. TEST
N^o 4909.
T.P. 350 lbs
WP 200 lbs

RLG.
17.4.25.

WASTE STEAM 4 1/2" DIA.



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Are the Water Gauges fitted direct to the ^{DRUM} ~~Boiler~~ Shells or mounted on Pillars? **NO**

Are the Water Gauge Pillars fitted direct to the ^{DRUM} ~~Boiler~~ Shells or connected by Pipes? **DIRECT.**

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

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

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? **Yes**

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

No. 5002 B.C. TEST 323 lbs 20 1/2 x 1 1/2 H.M.	No. 2202 B.C. TEST 323 lbs 15 1/2 x 1 1/2 J.M.S.
--	--

Thickness of End Plates in Steam Space Approved

in Boilers

Pitch of Steam Space Straps

Diam. of Straps Approved

in Boilers

Material of

How are Straps Secured?

Diam. 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 at

Diam. of Straps Approved

in Boilers

Material of

Are Straps fitted with Nuts 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 Steam Space between Fireboxes



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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

Diar. 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

" Plain " "

Thickness of Stay Tubes

" Plain " "

External Diar. of Tubes

Material

Thickness of Furnace Plates Approved

" " " " in Boilers

Smallest outside Diar. of Tubes

Length between Tube Plates

Width of Combustion Chambers (Front to Back)

Thickness of " " " "

" " " " in Boilers

Pitch of Stay Tubes in C.C. Tubes



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Diar. of Stays Approved Threads per Inch

" " in Boilers

Material "

Thickness of Front Tube Plates Approved

" " " " in Boilers

Pitch of Stay Tubes at Spaces between Stacks of Tubes

Thickness of Doublings in " " " "

" Stay Tubes at " " "

Are Stay Tubes fitted with Nuts at Front End ?

Thickness of Back Tube Plates Approved

" " " in Boilers

Pitch of Stay Tubes in Back Tube Plates

" Plain "

Thickness of Stay Tubes

" Plain "

External Diar. of Tubes

Material "

Thickness of Furnace Plates Approved

" " " in Boilers

Smallest outside Diar. of Furnaces

Length between Tube Plates

Width of Combustion Chambers (Front to Back)

Thickness of " " Tops Approved

" " " in Boilers

Pitch of Screwed Stays in C.C. Tops

Diar. of Screwed Stays Approved Threads per Inch

" " " in Boilers

Material "

Thickness of Combustion Chamber Walls Approved

" " " in Boilers

Pitch of Screwed Stays in C.C. Heads

Diar. " " Approved Threads per Inch

" " " in Boilers

Material "

Thickness of Combustion Chamber Heads Approved

" " " in Boilers

Pitch of Screwed Stays in C.C. Heads

Diar. " " 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

Length and Thickness of Girders

Material of Girders

No. of Stays in each

No. of Tops and Bottoms

Rate 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 " "

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

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 Crown Flat or Dished?
Internal Radius of Dished Boilers
Thickness of Plates
Description of Rooms in Boiler Crown
Diam. of River Holes
Width of Overlap
Height of Firebox Crown above Fire Grate
Are Firebox Crown Flat or Dished?
Internal Radius of Dished Crown
Thickness of Plates
No. of Crown Stays
Diam.
Material
External Diam. of Firebox at Top
Bottom
Thickness of Plates
No. of Water Tubes
Diam.
Material of Water Tubes
Size of Manhole in Shell
Dimensions of Compressing 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
Date when Safety Valves set
Date of Hydrostatic Test
Pressure on Valves



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VERTICAL DONKEY BOILERS.

No. of Boilers Type

Greatest Int. Diar. Height

Height of Boiler Crown above Fire Grate

Are Boiler Crowns Flat or Dished?

Internal Radius of Dished Ends Thickness of Plates

Description of Seams in Boiler Crowns

Diar. of Rivet Holes Pitch Width of Overlap

Height of Firebox Crowns above Fire Grate

Are Firebox Crowns Flat or Dished?

External Radius of Dished Crowns Thickness of Plates

No. of Crown Stays Diar. Material

External Diar. of Firebox at Top Bottom Thickness of Plates

No. of Water Tubes Ext. Diar. Thickness

Material of Water Tubes

Size of Manhole in Shell

Dimensions of Compensating Ring

Heating Surface, each Boiler Grate Surface

SUPERHEATERS.

Description of Superheaters

Where situated?

Which Boilers are connected to Superheaters?

Can Superheaters be shut off while Boilers are working?

No. of Safety Valves on each Superheater Diar.

Are " " fitted with Easing Gear?

Date of Hydraulic Test Test Pressure

Date when Safety Valves set Pressure on Valves

MAIN STEAM PIPES

No. of Lengths

Material

Internal Diar.

Thickness

How are Flanges secured?

Date of Hydraulic Test

Test Pressure

MATERIAL BY STEWART & LLOYD LTD. MADE BY MURDOCH MILLER

SCREWED & EXPANDED

WELDED

STEEL

2

2



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EVAPORATORS.

No. ONE Type COMPACTUM 4 24 Tons per Day
 Makers KIRKCALDY & CO
 Working Pressure 5 lbs Test Pressure 30 lbs 400 lbs Date of Test 24-12-24.
 Date of Test of Safety Valves under Steam 15-5-25

FEED WATER HEATERS.

No. 1750 Type PRESSURE SURFACE
 Makers CAIRD & RAYNER Made by NIMMO & MILLER
 Working Pressure 200 lbs Test Pressure 50 lbs 480 lbs Date of Test 26-2-25.

FEED WATER FILTERS.

No. ONE Type GRAVITATION TWIN Size
 Makers CARRUTHERS & CO
 Working Pressure ATOM. Test Pressure - Date of Test 21-5-25.

LIST OF DONKEY PUMPS.

FIRE & BILGE G & J. WEIR LTD. N° 9130.
SACTIONS: STARER, PORTER, TUNNEL, BILGE MAIN, SEA
DISCHARGE WATER SERVICE, OVERBOARD, FIRE MAIN, DECK, REFRIG. CIR.
SANITARY PUMP: G & J WEIR LTD.
SUCTION SEA F.W.
DISCHARGE EVAP. BRINE REFRIG CIR. FW. TANKS. SANITARY TANK.
FIRE & BILGE. G & T. WEIR. N° 49129.
SUCTION. SEA BILGE MAIN. INDEP. BILGE.
DISCHARGE DISTILLER OVERBOARD.
AIR PUMPS (2) G & J WEIR N° 43802 49040.
STEERING ENGINE BOW. MCLACHLAN & CO. N° 3579.
MAIN FEED PUMPS (2) G & J. WEIR. LTD.
AUX
OIL UNIT (2) HOWDEN WALLSEND TODD'S BURNERS.
FAN ENGINES (2) HOWDEN.



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SPARE GEAR LIST

No. of Top End Bolts	2	No. of Bot. End Bolts	2	No. of Cylinder Cover Slids	6
" Coupling Bolts	6	" Main Bearing Bolts	2	" Valve Chest	6
" Junk Ring Bolts	—	" Feed Pump Valves	1 SET	" Bilge Pump Valves	—
" H.P. Piston Rings	1 SET	" I.P. Piston Rings	1 SET	" L.P. Piston Rings	1 SET
" " Springs	—	" " Springs	—	" " Springs	—
" Safety Valve	2	" Fire Bars	—	" Feed Check Valves	—
" Piston Rods	—	" Connecting Rods	—	" Valve Spindles	—
" Air Pump Rods	1	" Air Pump Buckets	—	" Air Pump Valves	1 SET
" Cir. "	1 & BRASSES	" Cir. "	—	" Cir. "	—
" Crank Shafts	—	" Crank Pin Bushes	1 PAIR	" Crosshead Bushes	1 PAIR
" Propeller Shafts	1	" Propellers	2 C.	" Propeller Blades	—
" Boiler Tubes	6 LARGE 1 1/2" 6 SMALL 1 1/2"	" Condenser Tubes	24	" Condenser Ferrules	—

OTHER ARTICLES OF SPARE GEAR:

2 HORSE SHOE THRUST COLLARS.

FIRE & BILGE PUMP. 2 SETS RUBBER VALVES & SPRINGS

SANITARY & BILGE PUMP. 2 VALVE SPINDLE NECK BUSHES 4 VALVE GUARDS.

2 PISTON " " " 8 BUCKET RINGS.

REFRIGERATORS
 No. of Machines / Capacity of each
 CARBONIC ACID SYSTEM
 REFRIGERATING IN CHAMBER
 No. of Steam Cylinders and Pistons / No. of Compressors / No. of Cams TWO
 WATER CIRCULATING FOR MACHINE ONE
 INDEPENDENTLY BY SANITARY OR BALLAST PUMP
 BRINE CIRCULATING BY INDEPENDENT DUPLEX
 WASHINGTON PUMP FOR THIS PURPOSE

BRINE CIRCULATION
 CORK SLAB & CEMENT
 Insulation
 Yes
 No



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REFRIGERATORS.

No. of Machines *One* Capacity of each *4000*
 Makers *LIGHTFOOT REFRIGERATION CO LTD LONDON*
 Description *C.F. 582. CARBONIC ACID SYSTEM.*
BRINE CIRCULATING IN CHAMBERS.

No. of Steam Cylinders, each Machine *1* No. of Compressors *1* No. of Cranks *TWO.*

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

or Independently *WATER CIRCULATING FOR MACHINE DONE*

INDEPENDENTLY BY SANITARY OR BALLAST PUMP.

BRINE CIRCULATING BY INDEPENDENT DUPLEX

WORTHINGTON PUMP. FOR THIS PURPOSE ALONE.

System of Refrigeration

BRINE CIRCULATION.

Insulation

CORK SLAB & CEMENT.

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

Spaces?

YES

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

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

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

Date of Test under Working Conditions

22.5.25.

RESULTS OF TRIALS.

COMPARTMENT.	Temp. at beginning of Trial.	Temp. at end of Trial.	Time required to obtain this Result.	Rise of Temp. after $2\frac{1}{2}$ hours.
CARGO HOLD FOR ^D	50°	31°	10 hours.	none
CAPACITY OF CARGO HOLD = 3580 cubic feet				
" "	CREW STORES =		320	"
FORWARD	51	30	10	none
MAIN DECK	36	30	10	none
LADIES' LUNGE	16	5	10	none
UPPER DECK P.	34	30	10	none
" "	40	30	10	none
" "	33	5	10	none
PROTECTOR	40	30	10	none
WIRELESS	40	30	10	none

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

- | | |
|---|--|
| 1-CO ₂ Piston with rings and 2 nuts. | 1-set rings for steam piston valve |
| 1-extra set CO ₂ Piston rings | 1-charging valve spindle |
| 1-Compressor suction valve with br. spring | 1-Bypass valve spindle |
| 1- " delivery " " " | 1-set white metal packing for comp. glands |
| 1-CO ₂ Regulating valve. | 1-doz each large & small I.R. rings |
| 1-set copper jointing rings | 5-galls zwolen oil |
| 24-Copper Bursting Discs | |

ELECTRIC LIGHTING.

Installation Fitted by COASTER CONSTRUCTION CO. LTD.

No. and Description of Dynamos TWO - 4 POLE COMPOUND WOUND.

Makers of Dynamos PHOENIX DYNAMO CO. LTD.

Capacity " 12 KW. Amperes, at 114 Volts. 500. Revols. per Min.

Current Alternating or Continuous CONTINUOUS

Single or Double Wire System DOUBLE

Position of Dynamos PORT & STARBOARD SIDES OF ENG. RM LOWER PLATFORMS.

" Main Switch Board UPPER ENG. RM PLATFORM.

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

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.
1 FORWARD.	53 1	30 500.	13	7/036			600 Ω
2 MAIN DECK.	36 38 16	30 30 5	8	"			
3 LADIES LOUNGE.	16 38	5 30	10.	"			
4 UPPER DECK P.	34 40	5 30	13	"			
5 " " S.	38 5.	5.	14	"			
6 PROJECTOR.	Not fitted			7/044			
7 WIRELESS.	3 1/2 KW 16	30 SET	8	7/036			
8 NAVIGATION.	5 39	30 60	6	"			
9 ENGINE ROOM.	1 30 200		11	"			
10 FANS.	3 Fans		4	3/036			

Total No. of Lights 358. No. of Motors driving Fans, &c. 3. No. of Heaters 1

Current required for Motors and Heaters 14 Amperes.

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

1. STARBOARD SIDE PASSAGE 2ND CLASS CABINS. 10 SWITCHES.
2. PORT " MESS ROOM MAIN DECK. 8 "
3. FORE END PORT SIDE LADIES LOUNGE. 8 "
4. PASSAGE MIDSHIP PORT. 10 "
5. " " STARBOARD. 10 "
7. NAVIGATION STARBOARD SIDE AFT WHEEL HOUSE. 10 "
8. SIDE OF MAIN BOARD. 8 "

Location	Number of Switches	Notes
STARBOARD SIDE PASSAGE 2 ND CLASS CABINS	10	
PORT " MESS ROOM MAIN DECK	8	
FORE END PORT SIDE LADIES LOUNGE	8	
PASSAGE MIDSHIP PORT	10	
" " STARBOARD	10	
NAVIGATION STARBOARD SIDE AFT WHEEL HOUSE	10	
SIDE OF MAIN BOARD	8	

Are Out-outs fitted as follows?—

On Main Switch Board, to Cables of Main Circuits

On Aux. " " each Auxillary 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. $\frac{1}{19}$ S.W.G., Largest, No. $\frac{1}{16}$ S.W.G.

How are Conductors in Engine and Boiler Spaces protected? ARMOURED & BRAIDED RUN ON TRAY.

" Saloons, State Rooms, &c., " ? LEAD COVERED ON SURFACE.

What special protection is provided in the following cases?—

- (1) Conductors exposed to Heat or Damp KEPT AS FAR AS POSSIBLE FROM HEAT ON TRAY.
- (2) " " passing through Bunkers or Cargo Spaces ARMOURED & BRAIDED.
- (3) " " Deck Beams or Bulkheads OK TUBES. W/ GLANDS OR LEAD BUSH.

Are all Joints in Cables properly soldered and thoroughly Insulated so that the efficiency of the Cables

is unimpaired? YES.

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 ALL TESTED ON 250V.

What does the Resistance amount to? 600000 Ohms.

Is the Installation supplied with a Voltmeter? TWO

" " " an Ampere Meter? TWO.

Date of Trial of complete Installation 27-5-25 Duration of Trial 12 hours.

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

Robert H. Greig



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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.

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

Has the Installation Resistances over the whole system been tested?

What does the Resistance amount to?

Is the Installation supplied with 7 Volts?

Are Ampere Meters?

Date of Trial of complete Installation

Have all the requirements of Section 12 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. "CATALA"

as ascertained by me from personal examination

Robert H. Craig
 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.O.	Cub. ft.	:	:	
		£	:	:
Testing, &c. ...		:	:	
		£	:	:
Expenses ...		:	:	
		£	:	:
Total ...		£	:	:

It is submitted that this Report be approved,

Jack Barr for Chief Surveyor.

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

1st July 1925

Fees advised

Fees paid



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