

No. 1712

REMYOYLE*

THE BRITISH CORPORATION FOR THE SURVEY
AND
REGISTRY OF SHIPPING.

Report No. 1872 No. in Register Book 3186

S.S.

"REMYOYLE"
"Glenbedi"

Makers of Engines

N.E. Marnie & Co.
Hall Road, Warrington

Works No.

2608

Makers of Main Boilers

N.E. Marnie

Works No.

2608

Makers of Donkey Boiler

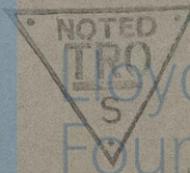
None fitted

Works No.

MACHINERY.



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005118-005131-0127

No.

THE BRITISH CORPORATION FOR THE SURVEY
AND
REGISTRY OF SHIPPING.

Report No. 1872 No. in Register Book 3186

Received at Head Office 23rd September 1925

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

Official No. 148133 Port of Registry Ontario

Registered Owners J. Playfair Ontario

Engines Built by N.C. Marine Eng'rs

at Wallsend on Tyne

Main Boilers Built by N.C. Marine Eng'rs

at Wallsend-on-Tyne

Donkey " " Marigold

at Wallsend-on-Tyne

Date of Completion 31-7-25

First Visit 7/2/25

Last Visit 31/7/25

Total Visits 40



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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.

" " 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

Type of Turbines employed

Description of Gearing

No. of Motors driving Propeller Shafts

Description of Motors

Diam. of 1st Reduction Pinion

" " " " 1st " Wheel

Estimated Pressure per lineal inch

Diam. of 2nd Reduction Pinion

" " " " 2nd " Wheel

Estimated Pressure per lineal inch

Revs. per min. of Generator at Full Power

" " " " Motors

" " " " 1st Reduction Shaft

" " " " 2nd " " "

" " " " Propeller Shaft

Total Shaft Horse Power

Date of Harbour Trial



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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.

Distance between shafts

Type of Turbine

No. of Turbine

Dist. of Turbine shafts at bottom of Column

At Aft Coupling

Dist. of Intermediate shafts by Ratio

No. of Shafts each Coupling

Dist. of Propeller Shafts by Ratio

Are Propeller Shafts fitted with Compound Frises?

Dist. over Line

Of what Material are the Aft Bearings composed?

Are Bearings provided for lubrication the Aft Bearings with Oil?

to have one set fitted on each of the Stern Shafts?



Thickness of End Plates in Steam Space Approved

$\frac{13}{32}$

Pillars
Pipes

" " " " in Boilers
Pitch of Steam Space Stays

$1'-10\frac{3}{4}" \times 1'-9\frac{3}{8}"$

Diar. " " " " Approved

$3\frac{1}{4}"$ Threads per Inch 6 threads

" " " " in Boilers
Material of " " "

Steel

How are Stays Secured?

Nuts, inside & outside

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

$\frac{7}{8}"$

" " " " in Boilers

Pitch of Stays at Wide Spaces between Fireboxes

$1'-2\frac{1}{2}" \times 9"$

Thickness of Doublings in " "

Thickness of Front End Plates at Bottom Approved

$\frac{31}{32}"$

" " " " in Boilers

No. of Longitudinal Stays in Spaces between Furnaces

Three

Handwritten notes and diagrams on page 19, including various measurements and technical descriptions. A large blue 'LR' logo is overlaid on the bottom right of the page.



Diar. of Stays Approved $2\frac{1}{4}"$ Threads per Inch 6 threads
 " " in Boilers
 Material " *Steel*
 Thickness of Front Tube Plates Approved $\frac{31}{32}"$
 " " " " in Boilers
 Pitch of Stay Tubes at Spaces between Stacks of Tubes $1-2\frac{1}{4}" \times 8\frac{1}{4}"$
 Thickness of Doublings in " " "
 " Stay Tubes at " " " $\frac{5}{16}"$
 Are Stay Tubes fitted with Nuts at Front End? *Stay Tubes at W.H. Space only*
 Thickness of Back Tube Plates Approved $\frac{3}{4}"$
 " " " in Boilers
 Pitch of Stay Tubes in Back Tube Plates $8\frac{1}{2} \times 8\frac{1}{4}"$
 " Plain " $4\frac{1}{4} \times 4\frac{1}{8}"$
 Thickness of Stay Tubes $\frac{5}{16}"$ & $\frac{1}{4}"$
 " Plain " 8 L.S.G.
 External Diar. of Tubes $3"$
 Material " *Wrought Iron*
 Thickness of Furnace Plates Approved $\frac{19}{32}"$
 " " " in Boilers
 Smallest outside Diar. of Furnaces $3'-8\frac{7}{16}"$
 Length between Tube Plates $7'-11\frac{9}{32}"$
 Width of Combustion Chambers (Front to Back) $2'-9"$
 Thickness of " " Tops Approved $\frac{3}{4}"$
 " " " in Boilers
 Pitch of Screwed Stays in C.O. Tops $10\frac{1}{2}" \times 9\frac{7}{8}"$



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Diam. of Screwed Stays Approved $1\frac{7}{8}$ " Threads per Inch 9

" " " in Boilers

Material " " Steel

Thickness of Combustion Chamber Sides Approved $\frac{3}{4}$ "

" " " in Boilers

Pitch of Screwed Stays in C.O. Sides $10" \times 9\frac{7}{8}"$

Diam. " " Approved $1\frac{3}{4}$ " Threads per Inch 9

" " " in Boilers

Material " " Steel

Thickness of Combustion Chamber Backs Approved $\frac{23}{32}$ "

" " " in Boilers

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

Diam. " " Approved $1\frac{3}{4}$ " Threads per Inch 6

" " " in Boilers

Material " " Steel

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

Yes
 $\frac{15}{16}$

Thickness of Combustion Chamber Bottoms

No. of Girders over each Wing Chamber

Three

" " " Centre "

Two

Depth and Thickness of Girders

$8\frac{5}{8}" \times 1\frac{3}{4}"$

Material of Girders

Steel

No. of Stays in each

Two

No. of Tubes, each Boiler

342

Size of Lower Manholes

$16" \times 12"$

VERTICAL DONKEY BOILERS

No. of Boilers	Type	Height	Grates Top Diam.	Height of Boiler Crown above Fire Grates	Are Boiler Crowns Flat or Dished?	Internal Radius of Dished Boilers	Diameter of Beams in Boiler Crowns	Clear of Beams Holes	Height of Boiler Crown above Fire Grates	Are Boiler Crowns Flat or Dished?	External Radius of Dished Crowns	No. of Crown Stays	Diam.	Material	Thickness of Plates	External Diam. of Boiler at Top	No. of Water Tubes	Material of Water Tubes	Size of Holes in Shell	Thickness of Combustion Chamber	Height of Water, each Boiler

SUPERHEATERS



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VERTICAL DONKEY BOILERS.

No. of Boilers Type

Greatest Int. Diar. Height

Height of Boiler Crown above Fire Grate

Are Boiler Crowns Flat or Dished?

Internal Radius of Dished Ends Thickness of Plates

Description of Seams in Boiler Crowns

Diar. of Rivet Holes Pitch Width of Overlap

Height of Firebox Crowns above Fire Grate

Are Firebox Crowns Flat or Dished?

External Radius of Dished Crowns Thickness of Plates

No. of Crown Stays Diar. Material

External Diar. of Firebox at Top Bottom Thickness of Plates

No. of Water Tubes Ext. Diar. Thickness

Material of Water Tubes

Size of Manhole in Shell

Dimensions of Compensating Ring

Heating Surface, each Boiler Grate Surface

SUPERHEATERS.

Description of Superheaters

Where situated?

Which Boilers are connected to Superheaters?

Can Superheaters be shut off while Boilers are working?

No. of Safety Valves on each Superheater Diar.

Are " " fitted with Easing Gear?

Date of Hydraulic Test Test Pressure

Date when Safety Valves set Pressure on Valves

MAIN STEAM PIPES

No. of Pipes

Material

Height, Weight or Section

Internal Diar.

Thickness

How and Where secured?

Date of Hydraulic Test

Test Pressure

No. of Pipes

Material

Height, Weight or Section

Internal Diar.

Thickness

How and Where secured?

Date of Hydraulic Test

Test Pressure

No. of Pipes

Material

Height, Weight or Section

Internal Diar.

Thickness

How and Where secured?

Date of Hydraulic Test

Test Pressure



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MAIN STEAM PIPES.

No. of Lengths	4		
Material	S.D. Steel		
Brazed, Welded or Seamless	Seamless		
Internal Diar.	5 1/2"		
Thickness	1/4"		
How are Flanges secured?	Screwed on & expanded		
Date of Hydraulic Test	2 - 8 - 5 - 25 3 - 18 - 5 - 25		
Test Pressure.	600 lb. sq.		
No. of Lengths			
Material			
Brazed, Welded or Seamless			
Internal Diar.			
Thickness			
How are Flanges secured?			
Date of Hydraulic Test			
Test Pressure			
No. of Lengths			
Material			
Brazed, Welded or Seamless			
Internal Diar.			
Thickness			
How are Flanges secured?			
Date of Hydraulic Test			
Test Pressure			

STEAM EVAPORATORS

No.	Type	Size
2	Bellows Pumps	11" x 12 1/2" x 2 1/4"
1	Quartz Ash Separator Pump	12" x 12" x 2 1/4"
2	Independent Feed Water Pumps	11" x 12 1/2" x 2 1/4"
1	Circulating Pump	11" x 12 1/2" x 2 1/4"
1	Gravity Pump	11" x 12 1/2" x 2 1/4"
1	Feed Water Heater	4 1/2" x 2 1/4" x 4 1/2"
The Extraordinary		
Process Russell & Co. A.S.		
2 1/2" x 1 1/4"		
FEED WATER FILTERS		
3"		
Have 1 Hour Test		
1000 lb. Test Pressure		



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EVAPORATORS.

No.	Type	Tons per Day
	Steel	
Makers		
Working Pressure	Test Pressure	Date of Test
Date of Test of Safety Valves under Steam		

FEED WATER HEATERS.

No.	1	Type	Exhaust Steam
Makers	Griscom Russell & Co. U.S.A.		
Working Pressure	5 lb/sq in	Test Pressure	
Date of Test			

FEED WATER FILTERS.

No.	1	Type	Pressure	Size	3"
Makers	Davie & Horne Ltd				
Working Pressure	190 lb/sq in	Test Pressure		Date of Test	

LIST OF DONKEY PUMPS.

2	Ballast Pumps	14" x 12 1/2" x 24"
1	Aux ⁿ & Ash Ejector Pump	10" x 6" x 12"
2	Independent Feed Pumps	7" x 9 1/2" x 21"
1	Circulating Pump	14" x 12 1/2" x 24"
1	Sanitary Pump	4 1/2" x 2 3/4" x 4"
1	Fresh water Pump	4 1/2" x 2 3/4" x 4"

2 cut of low plate
 2 cut of low plate
 20 bolts & nuts assorted
 2 cut of low plate valves
 2 sanitary pump valves
 2 ballast pump valves
 1 set ballast pump valves
 1 main & 2nd cut of low plate



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LIST OF SPARE GEAR

No. of Top End Bolts. 2	No. of Bot. End Bolts. 2	No. of Cylinder Cover Studs 12
" Coupling Bolts 6	" Main Bearing Bolts 2	" Valve Chest "
" Piston Ring Bolts	" Feed Pump Valves	" Bilge Pump Valves 12
" H.P. Piston Rings	" I.P. Piston Rings	" I.P. Piston Rings
" " Springs	" " Springs	" " Springs 1/2 Set
" Safety Valve 2	" Fire Bars 1/2 Set	" Feed Check Valves
" Piston Rods	" Connecting Rods	" Valve Spindles
" Air Pump Rods	" Air Pump Buckets	" Air Pump Valves
" Crk "	" Crk "	" Crk "
" Crank Pins	" Crank Pin Bushes	" Crosshead Bushes
" Propeller Shafts	" Propellers	" Propeller Blades 2
" Boiler Tubes	" Condenser Tubes 6	" Condenser Ferrules 50

OTHER ARTICLES OF SPARE GEAR:—

2 cwt of Iron Plate
 2 cwt of Iron Bars
 50 Bolts & nuts assorted
 2 Aux^r. Feed Pump Valves
 2 Sanitary Pump Valves
 1 Set Ballast Pump Valves
 1 main & Dky Feed Check Valve Lid

LIST OF REFRIGERATORS



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ELECTRIC LIGHTING.

Installation Fitted by *Swan Arrow & Co.*
 No. and Description of Dynamos *2 10K.W. 110 Volt* { *Enclosed engine, Comp. Wound Dynamo* }
 Makers of Dynamos *Clark Chapman & Co. Gateshead.*
 Capacity ,, *91* Amperes, at *110* Volts, *560* Revols. per Min.
 Current Alternating or Continuous *Continuous.*
 Single or Double Wire System *Double*
 Position of Dynamos *Engine Room Flat.*
 ,, Main Switch Board *Engine Room Flat.*
 No. of Circuits to which Switches are provided on Main Switch Board *Six (6).*

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.
ENG. & BIR. RMS.	21	30W					
	3	16 C.P.	7.25	7/029	I.E.E. Rules.	1.250 MEG.	
AFT. ACCMOD.	35	30W					
	4	16 C.P.	11.6	7/029	"	" "	
FORD. "	34	30W.					
	7	16 C.P.	12.8	7/044	"	900 "	
CARGO & TW. DR. LT.	52	30W.					
	50	16 C.P.	40.5	19/052	"	750 "	
NAVIGATION	4	60W.					
	2	30W	2.1	7/029	"	1250 "	
WIRELESS	-	-	-	7/064	"	900 "	

Total No. of Lights

No. of Motors driving Fans, &c.

No. of Heaters

Current required for Motors and Heaters

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 Test been made to prove that this condition has been satisfactorily fulfilled?

Has the Installation Endurance over the whole system been tested?

What was the Resistance amount to?

Is the Installation supplied with a Ventilator?

As a Safety Measure?

Date of Trial or complete Installation?

Have all the requirements of Section 42 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*

Are they placed as to be always and easily accessible?

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

as ascertained by *me* from personal examination

What special provisions are prescribed by the Rules?

Are they complied with?

"G. Bartedi"
Capt. Hill

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

Fees—

MAIN BOILERS.		£	s.	d.
H.S.	5380 Sq. ft.	:	:	
G.S.	—	:	:	
DONKEY BOILERS.				
H.S.	— Sq. ft.	:	:	
G.S.	—	:	:	
		£	:	:
ENGINES.				
L.P.C.	73.328 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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GENERAL CONSTRUCTION

Approved Plans?

H.R. 2280

Approved by the Committee for the Office of M.E.S. on the



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