

REPORT ON REFRIGERATING MACHINERY AND INSULATION.

(Received at London Office)

WED. MAR. 21 1923

Date of writing Report

19

When handed in at Local Office

19. 3. 1923

Port of Glasgow

No. in

Reg. Book. Survey held at Glasgow

Date: First Survey

17th March 1922

Last Survey

15th March 1923.

78453

(No. of Visits) 14

on the Refrigerating Appliances of the ~~Iron or Steel~~ SS "Calumet" Master

Tons { Gross 7268 Vessel built at Clydebank By whom John Brown & Co. Ltd. When 1922

Net 4462 Owners Eldon Dempster & Co. Ltd. Port Liverpool Voyage

Carruthers System. Machinery made by J. E. Hall & Co.

When 1922

Insulation fitted by John Brown & Co. J. D. Busulation Co. Liverpool

When 1922

Non-conducting material used Cork Slabs. Number of insulated chambers 4 Total capacity 20,300 cub. ft.

DESCRIPTION OF MACHINES, ETC. No. of machines One Single or duplex Duplex Where placed in engine room

Power of each machine in tons of ice melted per 24 hours — Sizes of steam cylinders — Stroke —

Revolutions per minute — Working pressure — No. of compression cylinders — Diameter of each —

Single or double acting — Stroke — Diameter of crank shaft — How are air, circulating and feed pumps worked —

Are they in duplicate — Can their work be performed by main engines —

No. of gas condenser coils — Can each be readily disconnected — No. of refrigerator coils — Can each be readily disconnected —

No. of brine pipe sections 12 Can each be readily disconnected yes What test has been applied to gas cylinders and coils — to cast iron connections — to refrigerator coils —

to brine pipe sections yes Is each fitted with a thermometer yes

What pipes in connection with refrigerating appliances are carried through bunkers or holds None How are they protected wood casing

What means are adopted for draining engine room — Is all necessary auxiliary machinery supplied —

SPARE GEAR. ARTICLES REQUIRED BY RULES AND SUPPLIED.

ADDITIONAL SPARE GEAR SUPPLIED.

As per London Report k^o 17320.

Checked and found correct, as required by the Rules.

ARTICLES REQUIRED BY RULES AND NOT SUPPLIED

The foregoing is a correct description.

See Lm Rpt.

Manufacturers.

GENERAL REMARKS AND RECOMMENDATION (If survey is not complete state what remains to be done)

This machinery was started at 9 AM on the 22/12/22. Average temperature of chambers 41° F. Machine stopped at 6.0 PM average temperature of chambers 10.5° F. Temperatures again taken at 9.0 AM 23/12/22. Average temperature of chambers 20° F. This installation is eligible, in our opinion to be classed with the notation of -1- LLOYD'S R.M.C. 3-23 in the Register Book.

It is submitted that this vessel is eligible for

THE RECORD + Lloyd's RMC 3.23

Surveyor to Lloyd's Register of Shipping.

A. Campbell

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Lloyd's Register Foundation

005293-005300-0286

DESCRIPTION OF INSULATION.

IN LOWER HOLDS.

IN 'TWEEN DECKS.

	Air Space.	Outer Lining.	Non-conducting Material.	Thickness of ditto.	Inner Lining.	Air Space.	Outer Lining.	Non-conducting Material.	Thickness of ditto.	Inner Lining.
SIDES						4	-	Delta cork	3' 4"	1 5/8 J.D.
OVERHEADING						1	-	"	3' 4"	1 5/8 J.D.
BULKHEADS No. 1. F						nil	-	"	2' 4"	2 5/8 J.D.
" " A						nil	-	"	2' 4"	2 5/8 J.D.
" No. 2. F										
" " A										
" No. 3. F										
" " A										
" No. 4. F										
" " A										
" No. 5. F										
" " A										
" No. 6. F										
" " A										

RIBBAND, MAIN DECK *nil*BOTTOM *On top of deck plating 2' 4" Delta cork slabs faced with 1 1/2 J.D. slabs*HATCHWAYS *nil*

FRESH WATER TANKS

MASTS

TUNNEL

STANCHIONS

SNOW BOX

BILGE SUCTION & AIR & SOUNDING PIPES

Centre Keelson, Sides

Top

Side Keelson, Sides

Top

Bilge " Sides

Top

Web frames, Sides

Face

Bilge Stringers, Top

Bottom

Face

Side " Top

Bottom

Face

Hold or Orlop Stringer, Top

Bottom

Face

Brackets

Sides

Face

Are insulated hatches fitted over limbers *yes*

and manhole doors of tanks

Are insulated plugs fitted in way of all sluices

bilge suctions

sounding pipes

Are insulated plugs fitted to ventilators

to cargo ports

in side insulation for examination of ship's side

Are the bottoms, sides and coamings of all insulated hatches coated to prevent decay

Are portable boxes fitted in overheadings for replenishing side insulation

and on tunnel tops

What means, if any, are taken to protect the bottom insulation in way of hatchways *no insulation in way of hatchways*Dimensions of cargo battens, on sides *2 1/2 x 1 W.P. in way of ports* bottom *3 x 1 W.P.* spacing *4 1/2 centres*Are these permanently fixed or portable *yes*Number of thermometer tubes in each chamber *2 in each large chamber - 1 in each small chamber -*Position of *see approved plan -*Are the flanges and covers of thermometer tubes efficiently fitted *yes*Are all wood linings tongued and grooved *no wood lining*Description and arrangement of trunkways or brine pipes for the distribution of cold *balls bulkhead room fitted with brine pipe 1 1/2 dia. 8" x 7 W.S. in girds secured in place as shown on the approved plan.*Do any trunkways pass through water-tight bulkheads *no* are water-tight doors fitted *no* and efficiently insulatedWhat means are adopted for closing the trunkways when carrying general cargo *no trunk ways.*

The foregoing is a correct description.

John Brown & Company, Limited.

Builders.

PARTICULARS TO BE ENTERED IN REGISTER BOOK.

REFRIGERATING MACHINES.					System of (1) Refrigerating (2) Insulating the Chambers.	POWER.		INSULATED CARGO CHAMBERS.	
No. and whether Single or Duplex.	Makers.	Date of Construction.	System.	Type.		Cubic feet of air delivered per hour.	Ice melting capacity per 24 hours. Tons.	No.	Capacity.
<i>one</i>	<i>J.E. Hall & Co.</i>	<i>1922</i>	<i>CO2</i>	<i>Hall</i>	<i>(1) ammonia</i>			<i>4</i>	<i>20300</i>
<i>duplex</i>		<i>1923</i>	<i>Carb. Amhy.</i>		<i>(2) cork</i>		<i>18</i>		

Fee *£ 6* : : : Fee applied for, *19. 3. 1923*Travelling Expenses *£ 15/9* : : : Received by me, *23 11/27 24/3*

Committee's Minute

GLASGOW

20 MAR 1923

Assigned *+ Lloyd's R.M.C. 3, 23.*CERTIFICATE WRITTEN *4/3/23*

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Certificate to be sent to