

## REPORT ON REFRIGERATING MACHINERY AND APPLIANCES.

(Received at London Office)

6 FEB 1950

Date of writing Report 9-1-19 50 When landed in at Local Office 9-1-50 Port of D U R B A N  
 No. in Reg. Book. Survey held at D U R B A N Date: First Survey 14th Dec., Last Survey 8th Jan., 19 50  
 15288 1949. (No. of Visits 17)

on the Refrigerating Machinery and Appliances of the S.S. "KILWA" Tons { Gross 2653  
 Net 1545

Vessel built at Greenock By whom built Scott's S.B. & E. Co. Yrd No. When built 1921

(Owners British India Stm. Nav. Co. Ltd., Port belonging to London Voyage East Africa

Refrigerating Machinery made by J. & E. Hall Ltd. Machine No. 13535/6 When made 1949

Insulation fitted by James Brown Ltd., When fitted 1949 ✓ System of Refrigeration CH 3 CL ✓

Method of cooling Cargo Chambers Brine ✓ Insulating Material used Slab Cork

Number of Cargo Chambers insulated One ✓ Total refrigerated cargo capacity 275 ✓ cubic feet.

## DESCRIPTION OF REFRIGERATING MACHINERY.

Where placed *Main deck.*

Refrigerating Units, No. of 2 ✓ No. of Machines 2 ✓ Cubic feet of air delivered per hour -

Total refrigeration or ice-melting capacity in tons per 24 hours 4.6 ✓ Are all the units connected to all the refrigerated chambers Yes ✓

Vee Belts ✓ Compressors, single or double acting Single ✓ No. of cylinders 4 *total*

4" ✓ Diameter of piston rod Trunk Pistons ✓ Length of stroke 3 1/2 ✓ No. of ~~XXXX~~ per minute 500 ✓

Electric motors 7 *HP.*

Working pressure, compound, or triple expansion, surface condensing. No. of cylinders - Diameter -

Working pressure - Diameter of crank shaft journals and pins -

of crank webs - No. of sections in crank shaft - Revolutions of engines per minute -

2 or 4 stroke cycle - Single or double acting -

Diameter - Length of stroke - Span of bearings as per Rule -

cylinders - Diameter of crank shaft journals and pins -

of crank webs - No. of sections in crank shaft - Revolutions of engine per minute -

type Hugh Scott & Co. No. of 2 Rated 38 amps ~~XXXXXX~~ 110

1760 revolutions per minute. Diameter of motor shafts at bearings 1 1/2"

g, maximum shaft horse power at 1st pinion - Revolutions per minute at full power at 1st pinion -

1st reduction wheel - main shaft - Pitch circle diameter, 1st pinion - 2nd pinion -

Main wheel - Width of face, 1st reduction wheel - Main wheel -

res of pinion and wheel faces and the centre of the adjacent bearings, 1st pinion - 2nd pinion -

Main wheel - Flexible pinion shafts, diameter 1st - 2nd -

eter at bearings, External, 1st - 2nd - Internal, 1st - 2nd -

of teeth of pinion, 1st - 2nd - Wheel shafts, diameter at bearings, 1st -

Diameter at wheel shroud, 1st - Main -

No. of 2 ✓ Cast iron or steel casings Steel ✓ Cylindrical or rectangular Cylindrical ✓

36 Material of coils 1 Worthington Simpson Can each ~~rod~~ be readily shut off or disconnected No

ing Pumps, No. and size of Size 2. D. 6. how worked Electric Gas Separators, No. of 2

vaporators, No. of 1 ✓ Cast iron or steel casings Steel ✓ Pressure or gravity type Pressure ✓

coils in each casing 2 Material of coils Steel Can each coil be readily shut off or disconnected Yes ✓

Expansion or Brine Cooled Batteries, No. of - Are there two separate systems, so that one may be in use while the other is being

cleared of snow - No. of coils in each battery - Material of coils - Can each coil be readily shut off or

disconnected - Total cooling surface of battery coils - Is a watertight tray fitted under each battery -

Air Circulating Fans, Total No. of *None* each of - cubic feet capacity, at - revolutions per minute -

Steam or electrically driven - Where spare fans are supplied are these fitted in position ready for coupling up -

Brine Circulating Pumps, No. and size of, including the additional pump 2 @ 25 galls. per min how worked Electric

Brine Cooling System, closed or open Closed. Are the pipes and tanks galvanised on the inside Yes

No. of brine sections in each chamber One

Can each section be readily shut off or disconnected - Are the control valves situated in an easily accessible position Yes



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Sounding Pipes, No. and position in each chamber situated below the load water line

Diameter Are all sounding pipes in way of insulated chambers fitted in accordance with Section 3, Clause 11

Are all wood linings tongued and grooved Are cement facings reinforced with expanded steel lattice

How is the expanded metal secured in place

How are the cork slabs secured to the steel structure of the vessel

Air Trunkways in Chambers, inside dimensions, main and branch

Are they permanently fixed or collapsible, or portable State position in chambers

Where air trunkways pass through watertight bulkheads, are they fitted with watertight doors Are the door frames efficiently insulated

Are insulated plugs supplied for the doorways Where are the doors worked from

Cooling Pipes in Chambers, diameter 1 1/2 Bore Are they galvanised externally Yes

How are they arranged in the chambers Overhead & side grids.

Thawing Off, what provision is made for removing the snow from the cooling pipes in the chambers Steam Brine Heater fitted.

The foregoing is a correct description of the Insulation and Appliances.

Builders.

Plans. Are approved Plans or Specifications forwarded herewith for the Refrigerating Machinery 22-2-49. and Insulation 22-2-49.

Is the Refrigerating Machinery and Appliances duplicate of a previous case No If so, state name of vessel

If the survey is not complete, state what arrangements have been made for its completion and what remains to be done Complete.

### General Remarks (State quality of workmanship, opinions as to class, &c.)

The above Refrigerating machinery has been efficiently installed in accordance with the Rules and approved plans and under a cooling down test found satisfactory.

The Refrigerating machinery is eligible in my opinion for the Record +LLOYD'S R.M.C.

12,49 in respect of the Spar deck chamber.

150

### 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.
No of Units 2 2	J. & E. Hall Ltd.	1949	CH <sub>3</sub> CL	-	(1) CH <sub>3</sub> CL (2) Slab & Granulated Cork.	-	4.6	1	275 cu. feet

Fee ... (2/3 Rule) £32 : 0 : 0 Fee applied for, 9-1- 1950

Travelling Expenses £ 3 17 : 6 Received by me, - 19  
Late Fee 5 5 0.

Committee's Minute FRI. 17 FEB 1950

Assigned + Lloyd's R.M.C. 150

Write Dr

CERTIFICATE WRITTEN.



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