

# Report on Refrigerating Machinery and Appliances.

Received at London Office

Date of writing Report 30th July 51 When handed in at Local Office 19 Port of KOBE

No. in Reg. Book. Survey held at Kobe Date: First Survey 26th June Last Survey 27th June 19 51  
50458 (Number of Visits 2)

on the Refrigerating Machinery and Appliances of the M.V. "AJAX" Tons { Gross 7540  
Net 4628

Vessel built at Greenock By whom built Scott's S.B. & E. Yard No.          When built 1931

Owners A. Holt & Co Port belonging to Liverpool Voyage         

Refrigerating Machinery made by J. & E. Hall Ltd. Machine Nos. 8264 & 8352 When made 1931

Insulation fitted by J. & E. Hall Ltd. When fitted 1931 System of Refrigeration C.O. 2

Method of cooling Cargo Chambers Brine & Air No. 4 Insulating Material used         

Number of Cargo Chambers insulated L. Hold & Twn. Deck Total refrigerated cargo capacity 44,060 cubic feet

## DESCRIPTION OF REFRIGERATING MACHINERY. Where placed

Refrigerating Units, No. of          No. of machines          Is each machine independent         

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

Compressors, driven direct or through <sup>single</sup> } reduction gearing. Compressors, single or double acting          If multiple effect compression           
<sub>double</sub> }

Are relief valves or safety discs fitted          No. of cylinders to each unit          Diameter of cylinders         

Diameter of piston rod          Length of stroke          No. of revolutions per minute         

Motive Power supplied from           
(State number of boilers, oil engines or electric generators supplying the motive power.)

Steam Engines, high pressure, compound, or triple expansion, surface condensing. No. of cylinders          Diameter         

Length of stroke          Working pressure          Diameter of crank shaft journals and pins         

Breadth and thickness of crank webs          No. of sections in crank shaft          Revolutions of engines per minute         

Oil Engines, type          2 or 4 stroke cycle          Single or double acting          B.H.P.         

No. of cylinders          Diameter          Length of stroke          Span of bearings as per Rule         

Maximum pressure in cylinders          Diameter of crank shaft journals and pins         

Breadth and thickness of crank webs          No. of sections in crank shaft          Revolutions of engine per minute         

Air Receivers:—Have they been made under survey          State No. of Report or Certificate         

Is each receiver, which can be isolated, fitted with a safety valve as per Rule         

Can the internal surfaces of the receivers be examined and cleaned          Is a drain fitted at the lowest part of each receiver         

No. of Receivers          Cubic capacity of each          Internal diameter          thickness         

Seamless, lap welded or riveted longitudinal joint          Material          Range of tensile strength          Working pressure by Rules         

Electric Motors, type          No. of          Rated          Kilowatts          Volts         

at          revolutions per minute. Diameter of motor shafts at bearings         

Reduction Gearing          Pitch circle diameter, pinion          Main wheel          Width of face         

Distance between centres of pinion and wheel faces and the centre of the adjacent bearings, pinion          Main wheel         

Pinion shafts, diameter at bearings          Main wheel shaft, diameter at bearings         

Gas Condensers, No. of          Cast iron or steel casings          Cylindrical or rectangular          Are safety valves fitted         

to casings          No. of coils in each          Material of coils          Can each coil be readily shut off or disconnected         

Water Circulating Pumps, No. and size of pumps available          how worked          Gas Separators, No. of         

Gas Evaporators, No. of          Cast iron or steel casings          Pressure or gravity type          If pressure type, are safety         

valves fitted          No. of coils in each casing          Material of coils          Can each coil be readily shut off or disconnected         

Direct 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          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          how worked         

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

No. of brine sections in each chamber         

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



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Vertical text on the left margin, including "CERTIFICATE", "The Committee of", "This Certificate is", "While the Committee", "circumstances whatever", "to its Surveyors or its", "Agent of the Society".



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. Are the arrangements satisfactory and in accordance with the approved plans.....

Are they permanently fixed or collapsible, or portable.....

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..... Minimum thickness..... Are they galvanised externally.....

How are they arranged in the chambers.....

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

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

Builders.

Plans. Are approved Plans or Specifications forwarded herewith for the Refrigerating Machinery..... and Insulation.....  
(If not, state date of approval)

Is the Refrigerating Machinery and Appliances duplicate of a previous case..... 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.....

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

PARTICULARS TO BE ENTERED IN REGISTER BOOK.

REFRIGERATING MACHINES.					System of (1) Refrigerating (2) Insulating the Chambers.	Ice melting capacity per 24 hours.  Tons.	Is Refrigerating Machinery Electrically Driven?	INSULATED CARGO CHAMBERS.	
No. of Units.	No. of Compressors.	System.	Makers.	Date of Construction.				No.	Capacity. Cubic ft.

See Mr. Hamel's statement 10/8/57.

Fee ..... £ 10 : - : - (Fee applied for, ..... 19.....

Travelling Expenses £ : : (Received by me, ..... 19.....

*D. Currie*

Surveyor to Lloyd's Register.

Committee's Minute.....

TUES. 21 AUG 1951

Assigned.....

See Kab 84



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