

of CARDIFF.

20th. August 1919.

James Murdoch.

The Ministry of Shipping and acting on instructions received from the Committee of Lloyd's Register survey the Machinery of the Ex-German Steel Twin Screw Steamer "ADOLPH WOERMANN", 6257 tons gross, of Hamburg for the purpose of ascertaining the present condition of her machinery, and in company with Mr. Nichol, Superintendent Engineer, representing the new Managing Owners and Mr. Lewis, Surveyor to the Board of Trade, also Mr. G. Evans, Surveyor to the Norske Veritas Society, the undersigned examined the machinery of the vessel whilst laying afloat in Queen Alexandra Dock, and in Mount Stuart Dry Dock, Cardiff, on 3rd. day of June 1919 and on subsequent dates.

The classification certificates were examined and noted that the vessel is classed in the Germanischer Lloyd as follows :-

$\frac{1}{4}$  100  $\frac{A}{4}$  (S +  $\frac{A}{4}$ ) March 1919

$\frac{1}{4}$  M.C. March 1919.

Present Managing Owners, Geo Thomson & Co., Ltd., London.

Port of Registry. London.

The vessel dry docked at this time.



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WS10-0033<sup>1/3</sup>

A general examination was made of the Machinery as follows :-

The Port and Starboard Engines, cylinders, pistons, slide cranks, thrust and tunnel shafting and main pumps opened out examination and condensers tested.

Refrigerating, Electric and Auxiliary Engines together with pumps opened out, examined, repaired or renewed as necessary. Pistons put in order in L. P. Slide Valves.

Bottom ring supplied and fitted in both H.P. cylinders, H.P. & L.P. bottom end brasses, 6/8 halves of Port Main Engine tested.

Washers fitted to Port & Starboard Main Engine H. P. piston rods.

H.P. piston valve rings examined and adjusted.

Washers and bottom ends examined and adjusted.

H.P. main engine crosshead trued up in lahte and brasses tested.

Washers in Main Engine Glands overhauled and made good.

Starboard propeller taken off, Cedarval gland examined and put in order.

Washers overhauled dial replaced with English lettering.

Names altered to English on all valves, etc.

Steering Engine examined and adjusted.

Electric wiring throughout ship overhauled and made good.

Minor repairs effected.

Washers examined internally and externally together with their valves, mountings and doors.

Washers and cocks skimmed and ground in where necessary.

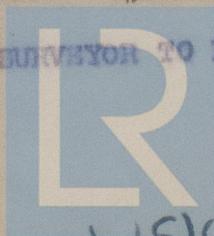
Washers adjusted under steam to 200 lbs. per square inch.

Minor repairs effected.

In my opinion as far as can be judged from inspection of the vessel now examined the vessel appears to be in a fit condition to run for a period of six months.

*James Hurdock.*

ENGINEER SURVEYOR TO LLOYD'S REGISTER.



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WS10 003375

S.S. "ADOLPH WOITMANN".

Richtersteig Schiffwerfte under Maschinenfabrik 1906.

Distinguishing signals R. P. H. V.

Diam. of Cylinders.

Propeller.

Port.	Starb <sup>d</sup>	
21 inches.	H.P. = 21 <sup>5</sup> / <sub>8</sub> inches.	Pitch = 19 feet.
38 <sup>1</sup> / <sub>2</sub> "	M.P. = 38 <sup>1</sup> / <sub>2</sub> "	
60 "	L.P. = 60 "	

1 Shaft - Two (one in each tunnel).

Engine. - Top of engine room, controlled by telemotor and Hand gear.

AUXILIARIES.

Two forced draught engines, one fan.

Motor to Condenser and distiller.

Electric engines and dynamos, 250 Amperes each.

Water pumps, one ash ejector pump.

Feed pumps. One ballast pump. (Pulsometer).

Sanitary pump. Two Centrifugal Circulating pumps.

Water heater. One filter.

Refrigerator. One Refrigerating Machine (ammonia).

BOILERS.

Two horizontal boilers (Howdens Forced draught).

Dimensions each boiler. Length of boiler = 3670m.m. Dia = 4400m.m.

Furnace = 2559m.m. Dia. of furnace = 1150m.m. 1050m.m.

Height of Furnace = 16m.m.

Number of tubes in one boiler including stays 286.

Diameter of tubes = 3 inches. Stay tubes = 3 inches.

Working pressure = 200 lbs per sq. in.

Port forward boiler built and fitted in ship 1911.

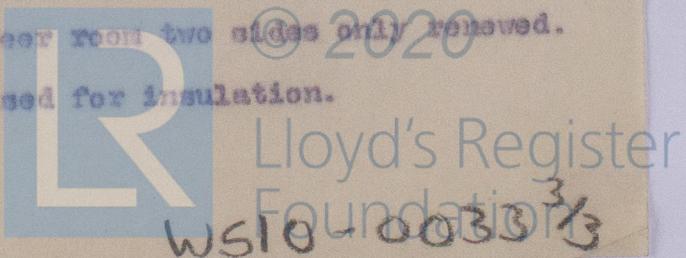
Water level in chamber top to lowest water level 170 m.m.

REFRIGERATOR CHAMBERS.

Insulation renewed throughout, also match boarding in Meat

chamber and Vegetable room. Beer room two sides only renewed.

and powdered cork has been used for insulation.



WS10-00333