

IS A DONKEY BOILER FITTED? *Ans. boiler* ✓ If so, is a report now forwarded? *Yes.* ✓

SPARE GEAR. State the articles supplied:— *Four main bearing bolts & nuts. Centrif. impeller & set feed pump valves & seats. Two crank pin " " ✓ Grooved & cr. pin bolts. Set bilge pump " " ✓ Two crosshead " " ✓ Air pump rod & nut. Set piston packing for all pistons. Set coupling " " ✓ 3 Safety valves for Condensers tubes. Set fuel ring bolts. Crank shaft one engine. Boiler tubes & fittings. Assorted bolts & nuts. ✓ Propeller shaft Etc. Etc. Iron various sizes. ✓ 4 Blades & 2 sets studs & nuts.*

The foregoing is a correct description,

Kawasaki Dockyard Co., Ltd.,

Per *Kawajima*

Manufacturer.

Secretary

Dates of Survey while building: During progress of work in shops: 6.12.19 April. 9.13.15.16.29 May. 1.14.16.17.20.30 June. 7.28 July. 18 Aug. 9 Sep. 18 Oct. 3. During erection on board vessel: 12.18.19 Dec. 1916. 18.22.29 Jan. 6.9.13.19.23.28 Feb. 2.5.7.9.16.20.24.28 Mar. Total No. of visits: 2.9.12.18.20.21.23.24.28 Apr. = 56 4.5.7.9.12.14.16 May 1917

Is the approved plan of main boiler forwarded herewith? *Yes* ✓

Dates of Examination of principal parts: Cylinders 28/7/16 etc Slides 30/11/16 etc Covers 30/11/16 etc Pistons 17/4/16 etc Rods 18/8/16 etc Connecting rods 18/8/16 etc Crank shaft 20/9/16 etc Thrust shaft 26/8/16 etc Tunnel shafts 26/8/16 etc Screw shaft 1/8/16 etc Propeller 2/4/17 Stern tube 13/2/17 etc Steam pipes tested 18/4/17 Engine and boiler seatings 12/4/17 Engines holding down bolts 4/5/17 Completion of pumping arrangements 7/5/17 Boilers fixed 28/4/17 Engines tried under steam 12/5/17 Completion of fitting sea connections 21/4/17 Stern tube 9/4/17 Screw shaft and propeller 20/4/17 Main boiler safety valves adjusted 7/5/17 Thickness of adjusting washers *Lock nuts* Material of Crank shaft *Steel* Identification Mark on Do. *P. 20.9.16* Material of Thrust shaft *Steel* Identification Mark on Do. *P. 26.8.16* Material of Tunnel shafts *Steel* Identification Marks on Do. *P. 26.8.16* Material of Screw shafts *Steel* Identification Marks on Do. *P. 1.8.16* Material of Steam Pipes *Steel* ✓ Test pressure *600 lbs.*

Is an installation fitted for burning oil fuel? *No* ✓ Is the flash point of the oil to be used over 150°F. *✓*

Have the requirements of Section 49 of the Rules been complied with?

Is this machinery duplicate of a previous case? *Yes* ✓ If so, state name of vessel *"Argonne" "Capodi Monte" "Ward"*

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

The machinery has been made & fitted under Special Survey & the materials & workmanship have been found good & the Rules have been complied with.

The shafting has been made under Survey at the Robt Steel Works.

On three double runs over a 3 mil. course a speed of 14.4 knots was attained.

Some of the particulars of the engine performance are:—

| Initial pressures. | | | Vac. | | Press. | | Hot | | Feed | | Cir | | Sea | | I.H.P. | | |
|--------------------|--------|--------|------|--|----------|--|---------|--|---------|--|---------|--|--------|--|------------|-----------|--------------|
| H.P. | S.P. | L.P. | | | p. min. | | Wet. | | Thap. | | Disc. | | Thap. | | H.P. | S.P. | L.P. |
| 200 lbs | 80 lbs | 13 lbs | 28" | | 80 & 81. | | 95° | | 165° | | 100° | | 57° 9. | | 953 to 966 | 1443-1452 | 1458 to 1512 |
| 586 " | 514 " | | | | | | 102° 7. | | 175° 2. | | 106° 2. | | | | | | |

Draught of vessel F. 8' 4" A. 15' 4" = Mean 11' 11 1/2" Totals 3866 to 3930

Satisfactory tests were made of feeding the boilers from the engine pumps & from Weir feed pumps & of circulating the condensing water with the ballast pump.

The machinery in my opinion renders the vessel eligible for the notation + L.M.S. with date May 1917.

The amount of Entry Fee ... *£ 30* : When applied for, *16 May 1917*
Special ... *£ 594* :
Donkey Boiler Fee ... *£ 50* :
Travelling Expenses (if any) £ : When received, *17 May 1917*

Arthur L. Jones F.D.
Engineer Surveyor to Lloyd's Register of Shipping.

Committee's Minute *TUE 10 JUL 1917*

Assigned *L.M.S. 5.17*

MACHINERY CERTIFICATE WRITTEN.