



IS A DONKEY BOILER FITTED?

If so, is a report now forwarded?

SPARE GEAR. State the articles supplied: - 2 connecting rod top end bolts & nuts: 2 connecting rod bottom end bolts & nuts: 2 main bearing bolts: 1 set of coupling bolts: 1 set of bilge pump valves: a quantity of assorted bolts & nuts: iron of various sizes: 1 tail shaft: one section crank shaft: air pump rod: 1 pair of top and bottom end brasses.

The foregoing is a correct description,  
THE WM. CRAMP & SONS SHIP & ENGINE BUILDING CO.

J. F. Miller

Manufacturers.

Dates of Survey while building: During progress of work in shops: 1915. Nov. 11, 23, 29 Dec. 1, 17, 21, 28 Jan. 10, 13, 19, 24, 31 Feb. 11, 17, 28 Mar. 2, 7, 10, 16, 21, 28 to Oct 13 1916. During erection on board vessel: Oct 19, 23, 30 Nov. 3, 6, 13, 15, 17, 21, 27 Dec. 5, 11, 15, 16, 20 Total No. of visits 56

Is the approved plan of main boiler forwarded herewith?

Dates of Examination of principal parts: Cylinders 13-1-16 Slides 29-3-16 Covers 27-3-16 Pistons 16-3-16 Rods 16-3-16 Connecting rods 24-4-16 Crank shaft 17-4-16 Thrust shaft 17-4-16 Tunnel shafts none Screw shaft 24-7-16 Propeller 19-10-16 Stern tube 19-10-16 Steam pipes tested 4-12-16 Engine and boiler seatings 13-10-16 Engines holding down bolts 13-11-16 Completion of pumping arrangements 15-12-16 Boilers fixed 5-12-16 Engines tried under steam 16-12-16 Completion of fitting sea connections 21-11-16 Stern tube 21-11-16 Screw shaft and propeller 21-11-16 Main boiler safety valves adjusted 16-12-16 Thickness of adjusting washers lock nuts fitted

Material of Crank shaft Steel Identification Mark on Do. 1670 Material of Thrust shaft Steel Identification Mark on Do. 1670 Material of Tunnel shafts Steel Identification Marks on Do. Material of Screw shafts Steel Identification Marks on Do. 1670 Material of Steam Pipes Steel Test pressure 600 lbs per sq. in.

Is an installation fitted for burning oil fuel? Yes, but not in service. Is the flash point of the oil to be used over 150°F. Yes

Have the requirements of Section 49 of the Rules been complied with? Yes. Is this machinery duplicate of a previous case? Yes. If so, state name of vessel: "Dun De"

General Remarks (State quality of workmanship, opinions as to class, &c.) Pumps: 14" x 10 1/4" x 12": 3 @ 6" x 5 3/4" x 6" 2 @ 5 1/4" x 4 3/4" x 5": 6 x 5 3/4" x 6": 2 @ 6" x 3 1/2" x 6": 8" x 10" x 10" x 12": 4 1/2" x 6 1/2" x 6".

The machinery of this vessel has been built under special survey: the material and workmanship being good, and proved satisfactory on steam trial. It is submitted that this vessel be eligible for a record of + L.M.C. 12-16 in the Register Book, subject to the fuel oil suction on the fuel oil tank bulk head being permanently closed, which is to be done at Newport News. (Surveys advised)

It is submitted that this vessel is eligible for THE RECORD + L.M.C. 12-16. F.D.

The fuel oil suction have been closed.

The amount of Entry Fee ... \$ 15-00: Special ... \$ 241-25: Donkey Boiler Fee ... £ : Travelling Expenses (if any) \$ 6-00: When applied for, 19... When received, 7/2/17

A. T. Thomas Engineer Surveyor to Lloyd's Register of Shipping.

Committee's Minute New York JAN 4 1917

Assigned + d. m. b. 12.16 subject Elec. Light

MACHINERY CERTIFICATE WRITTEN 23.047



Surveyed

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Register

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be made

This Certificate is issued while the committee is in session and is not to be taken as a judgment, default or negligence.