

# Lloyd's Register of Shipping.

(Report on Machinery, No. \_\_\_\_\_ Port \_\_\_\_\_)

## No. \_\_\_\_\_ ENGINE FORGINGS OR CASTINGS.

I have to report that the ~~Iron or Steel Forgings or Castings~~, as herein described, manufactured by Harland & Wolff Ltd of Belfast for the Engines No. 439 being constructed by themselves of \_\_\_\_\_ for the Ship No. \_\_\_\_\_, being built by \_\_\_\_\_ of \_\_\_\_\_

have been inspected by me as set forth below, and found to be, so far as can be seen. found

Mark on Forgings or Castings.

Lloyd's  
No. 439  
WB.

William Duthie  
Belfast

	CRANK SHAFT.		STRAIGHT SHAFTING.		
			THRUST SHAFT.	INTERMEDIATE SHAFTS.	PROPELLER SHAFT.
Material * ...	<u>off Steel</u>		<u>off Steel</u>		
How made † ...	<u>forged</u>		<u>forged</u>		
Dimensions ...	✓				
Progress on Inspection }	<u>forged</u>		<u>finishing</u>	<u>finished</u>	
Tests on Standard Test Pieces.	<u>Pins Journals</u>				
Tensile Test—	<u>30</u>	<u>29.9</u>	<u>28.0</u>	<u>30.0</u>	<u>29.8</u>
Tons per square inch ...					
Extension per cent ...	<u>30</u>	<u>33</u>	<u>38</u>	<u>29</u>	<u>29</u>
Cold Bending Test—	<u>180°</u>	<u>180°</u>	<u>180</u>	<u>180</u>	<u>180°</u>
Angle before fracture ...					
Dates when Inspected	<u>See 1st entry report.</u>				

### PARTICULARS OF OTHER TESTS APPLIED TO CASTINGS:—

<u>Connecting rods</u>	<u>Ins</u>	<u>to 3"</u>	<u>Bends</u>
	<u>28.3</u>	<u>38</u>	<u>180°</u>
<u>Piston rods</u>	<u>28.1</u>	<u>36</u>	<u>180°</u>
	<u>33.8</u>	<u>31</u>	<u>180°</u>
	<u>32.6</u>	<u>31</u>	<u>180°</u>

Fee (if any chargeable) £ Classed ship.  
To be paid at \_\_\_\_\_

\* If of iron, state whether scrap or puddled iron. If of steel, state whether made on the Open Hearth process.