

LEEDS TO

Newcastle.

Received at

Office,

19

415B
Lloyd's Register of Shipping.

(Report on Machinery, No. _____)

Port

LEEDS

No. **F.953****ENGINE FORGINGS OR CASTINGS.**

I have to report that the ~~Forgings or~~ Castings, as herein described, manufactured by Messrs. Hopkinsons Ltd. of Huddersfield for the Engines No. _____ being constructed by Messrs. Wallsend Slipway & Eng. Co. of Wallsend-on-Tyne 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, sound and free from defects. These have been despatched to Wallsend-on-Tyne

Mark on ~~Forgings or~~ Castings.**Lloyd's**

No. 5059, U.302, U.321, U.342, 4906,
5047, 5059, U.503. L.A.W. 1-11-46 to 13-12-46

LEEDS January 29th, 1947

La Whyatt

	CRANK-SHAFT.	THRUST-SHAFT.	INTERMEDIATE SHAFT.	TUBE-SHAFT.			
		<u>5059</u>	1 - 4"x 3 1/2"x 3 1/2" Branchpiece 1 - 3"x 2 1/2"x 2 1/2"x 2 1/2" Branchpiece 1 - 4 1/2" x 4"x 4"x 4" Branchpiece 1 - 3 1/2" x 3"x 3" Branchpiece 1 - 1 1/4" "U" Valve Body.	SCREW-SHAFT.			
	<u>FLYWHEEL-SHAFT.</u>						
Material* ...	E.F. & Conv. Steel	<u>U.302</u>	1 - -do- Cover				
How made ...	Cast	<u>U.321</u>	1 - 3 1/2" Sat. Steam Stop Valve				
If Annealed...	Normalised	<u>U.342</u>	1 - -do-				
Dimensions }	-	<u>4906</u>	1 - 3 1/2" Boiler Stop Valve Cover.				
Weight } Forgings	-	<u>5047</u>	1 - 3 1/2" Sat. Steam Valve Cover.				
		<u>U.503</u>	1 - 4"x 4"x 1 1/4"x 1 1/2" Branchpiece.				
Weight, Castings ...	8 cwts 1 qr 9 lbs.						
Progress on } Inspection }	Dressed.						
<u>TEST RESULTS.</u>							
	<u>5059</u>	<u>U.302</u>	<u>U.321</u>	<u>U.342</u>	<u>4906</u>	<u>5047</u>	<u>U.503</u>
Ultimate Tensile.							
Tons per sq. in. ...	30,9	29,5	30,2	30,4	38,4	32,4	29,6
Yield Point.							
Tons per sq. in. ...	18,2	15,6	17,5	17,8	24,5	18,6	15,6
Extension per cent							
on.....3 inches ...	30,0	32,0	30,0	30,0	24,0	29,0	32,0
Red. of Area % ...	49,0	52,6	50,0	49,0	40,6	50,0	53,4
Cold Bending Test...	130°	130°	130°	130°	130°	130°	130°
Dates when Inspected			1-11-46	to 13-12-46.			

PARTICULARS OF OTHER TESTS APPLIED TO CASTINGS:-

Hammer tests satisfactory.

£3. 3. 0. Exp. 6/-.
Fee (if any chargeable) Including F.952/4 To be paid at

* If of wrought iron, state whether piled bars or scrap. If of steel, state whether made by the Open Hearth process.