

Lloyd's Register of Shipping.

(Report on Machinery, No. AORANGI Port Winterthur)No. F. 75. ENGINE FORGINGS ^{AND} OR CASTINGS.

I have to report that the ~~Iron or~~ Steel Forgings ^{AND} or Castings, as herein described, manufactured by Messrs. Sulzer Bros. of Winterthur for the Engines No. 2959 To being constructed by Messrs. Sulzer Bros. of Winterthur for the Ship No. "AORANGI" of Winterthur have been inspected by me as set forth below, and found to be, so far as can be seen, sound and free from defects.

1 Reserve piston rod and Cast steel Charge.

Mark on Forgings or Castings.

Winterthur 10th March, 1925.

W.S. Vallis.

Lloyd's

No. 175.R. 10-3-25.

	CRANK SHAFT. Piston rod.	Cast steel charge. STRAIGHT SHAFTING.		
		CRANK SHAFT.	INTERMEDIATE SHAFTS.	PROPELLER SHAFT.
Material* ...	<u>Am. S. M. Eng. Steel</u>	<u>O. H. Steel</u>		
How made ...	<u>Forged.</u>	<u>Cast.</u>		
Dimensions ...	<u>✓</u>	<u>✓</u>		
Progress on Inspection ...	<u>Finished</u>	<u>Finished.</u>		
Tests on Standard Test Pieces.	<u>4042</u>	<u>756</u>		
Tensile Test—	<u>.564 x 2</u>	<u>.564 x 2</u>		
Tons per square inch	<u>30.0</u>	<u>30.8</u>		
Extension per cent	<u>24.0</u>	<u>37.0</u>		
Cold Bending Test—	<u>180° 1/4 Rad. Good.</u>	<u>120° 1" Rad. Good.</u>		
Angle before fracture				
Dates when Inspected	<u>5-1-25, 10-3-25.</u>	<u>17-2-25, 10-3-25.</u>		

PARTICULARS OF OTHER TESTS APPLIED TO CASTINGS:—

Hammering tests of Castings satisfactory

Fee (if any chargeable) £ 1-10-0.

To be paid at Winterthur.

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