

## Lloyd's Register of Shipping.

Order: 640181. (Report on Machinery, No. 20926. Port Hamburg.)No. 33428 ENGINE FORGINGS OR CASTINGS

I have to report that the Forgings ~~and Castings~~, as herein described, manufactured by Messrs. Gutehoffnungshütte A.G. of Sterkrade for the Engines No. being constructed by of for the Ship No. 149, being built by Messrs. Deutsche Werft of Hamburg 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 Hamburg.

Mark on Forgings or Castings.

Lloyd's

Düsseldorf 18th April 1932.

No. 1350/1351/1353/1354/1355.

F.S. 15.4.32.

	<del>CRANK SHAFT</del>	<del>INTERM. SHAFT</del>	<del>INTERM. SHAFT</del>	<del>PROP. SHAFT</del>
	1 intern. shaft	1 intern. shaft	1 prop. shaft	1 prop. shaft 1 prop. shaft
	<del>CRANK SHAFT</del>			<del>PROP. SHAFT</del>
	1350	1351	1353	1354 1355
Material* ...	Annealed	Siemens	- Martin	Ingot Steel
How made ...	forged	forged	forged	forged
If Annealed ...	Yes	Yes	Yes	Yes
Dimensions, Forgings	450 mm Ø	450 mm Ø	400 mm Ø	400 mm Ø
Weight, Castings				
Progress on Inspection }	rough turned	rough turned	rough turned	rough turned
Tests on Standard Test Pieces.	.798 3"	.798 3"	.798 3"	.798 3"
Tensile Test—				
Tons per square inch	29,7	29,5	28,3	30,9 28,3
Extension per cent	31,2	32,0	33,3	31,3 36,0
Cold Bending Test—				
Angle before fracture	180 degr. good	180 degr. good	180 degr. good	180 degr. good
Dates when Inspected	15-4.32.	15.4.32.	15.4.32.	15.4.32.

PARTICULARS OF OTHER TESTS APPLIED TO CASTINGS:—

Fee (if any chargeable) £

To be paid at Düsseldorf.

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