

Lloyd's Register of Shipping.

Order: 162672.

(Report on Machinery, No.

Port

)

No. 25839

ENGINE FORGINGS OR CASTINGS

I have to report that the Forgings ~~or Castings~~, as herein described, manufactured by Messrs. Gutehoffnungshütte A.G. of Sterkrade for the Engines No. 14 being constructed by of for the Ship No. 156, being built by Messrs. Kockums Mek. Værkstad of Malmö 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 Malmö.

Mark on Forgings or Castings.

Lloyd's

No. 13210.

K.H.3.11.27.

Düsseldorf 4th November 1927.

1 three throw built up crank shaft with pump throw.

	CRANK SHAFT		PUMP SHAFT		INTERMEDIATE SHAFT		KNUCKLE SHAFT	
	6 webs		1 journal		2 pins		2 pins	
	KEYWAY BELT SHAFT						SCREW SHAFT	
Material * ...	Annealed		Siemens		Martin		Ingot	
How made ...	forged		forged		forged		forged	
If Annealed ...	Yes		Yes		Yes		Yes	
Dimensions, Forgings			360 mm ø		360 mm ø		360 mm ø	
Weight, Castings								
Progress on Inspection }	rough		turned and finished		rough		turned and finished	
Tests on Standard Test Pieces.	.798	3"	.798	3"	.798	3"	.798	3"
Tensile Test—								
Tons per square inch	30,5	30,1	31,6		31,8		30,4	29,7
Extension per cent	33,3	33,3	32,0		28,0		34,0	33,3
Cold Bending Test—								
Angle before fracture	180 degr. good		180 degr. good		180 degr. good		180 degr. good	
Dates when Inspected	3.11.27.		3.11.27.		3.11.27.		3.11.27.	

PARTICULARS OF OTHER TESTS APPLIED TO CASTINGS:—

1 pin	.798	3"	29,5	Tens p.sq.inch.	32,0%	Elongation.
1 pin	.798	3"	28,1	" " " "	32,0%	"
	.798	3"	28,8	" " " "	33,3%	"
1 pump throw	.798	3"	29,5	" " " "	32,0%	"

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.

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ENGINE FORGINGS

I have to report that the Forgings XXXXXXXX as herein described, manufactured by Messrs. Gutehoffnungshütte A.G. for the engine No. 14 being constructed by the Ship No. 155 being built by Malmö Messrs. Kockums Mek. Verkstad have been inspected by me as set forth below, and found to be, so far as our test, sound and free from defects. These have been despatched to Malmö.

Disassembled 4th November 1927.

I three throw built up crank shaft with pump throw.		XXXXXXX		XXXXXXX		XXXXXXX		XXXXXXX	
8 webs		XXXXXXX		XXXXXXX		XXXXXXX		XXXXXXX	
1 Journal		XXXXXXX		XXXXXXX		XXXXXXX		XXXXXXX	
2 pins		XXXXXXX		XXXXXXX		XXXXXXX		XXXXXXX	
2 pins		XXXXXXX		XXXXXXX		XXXXXXX		XXXXXXX	
Annular		Stemmen		Martin		Ingot		Steel	
forged		forged		forged		forged		forged	
Yes		Yes		Yes		Yes		Yes	
360 mm Ø		360 mm Ø		360 mm Ø		360 mm Ø		360 mm Ø	
rough turned and finished		rough turned and finished		rough turned and finished		rough turned and finished		rough turned and finished	
3"		3"		3"		3"		3"	
30.5		30.1		31.8		31.8		30.4	
33.3		33.0		33.0		33.0		33.7	
180 deg. Good		180 deg. Good		180 deg. Good		180 deg. Good		180 deg. Good	
3.11.27.		3.11.27.		3.11.27.		3.11.27.		3.11.27.	
1 pin .798		20.5 Tons p. ad. Inch.		32.0% Elongation.		32.0% Elongation.		32.0% Elongation.	
1 pin .798		32.1		32.0		32.0		32.0	
1 pin .798		32.8		32.3		32.3		32.3	
1 pin .798		32.5		32.0		32.0		32.0	

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1-12-27