

Lloyd's Register of Shipping.

Order: 15878
Post: 92/24

(Report on Vessel No. _____ Port _____)

No. 3 2 8 0 SHIP FORGINGS ~~OR CASTINGS~~

I have to report that the undermentioned ~~Iron~~ Steel Forgings & Castings, manufactured by Messrs. Witkowitz Bergbau & Eisenh. Gew. of Witkowitz for the Vessel No. 45, being built by Messrs. Odense Staalskibsvaerft of Odense have been inspected by me as set forth below and found to be, so far as can be seen, 1 built up rudder with plate, sound and free from defects.

Report on Forgings ~~or Castings~~.

Lloyd's
No. 4526
HK. 3.11.31

11163/64

Vienna, 10th November 1931

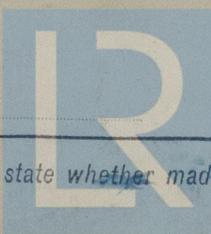
Hans Kolbow

	1 rudder shaft	1 rudder spindle	rudder arms	
	STEM	RUDDER FRAME	1	STEM 1
Material* ...	Siemens Martin Ingot	Steel		
made ...	forged	forged		
annealed ...	annealed	annealed		
Dimensions ...	265 Ø	365/297 Ø		to sketch
Condition on Inspection ...	finished	finished		finished
When Inspected	8.9; 26.9; 3.11.1931			
(CASTINGS)	<u>No: 11163</u>	<u>No: 11164</u>		
Tests on Standard Test Pieces.				
Tensile Test—				
Force per square inch ...	29.8	30.9	30.8	30.6
Elongation per cent. ...	31.6	34.2	36.8	34.2
Bending Test—				
Angle before fracture ...	180 degrees	good		
Impact Test—				
Height from ground ...	---	---	---	---
Flaming Test—				
Material made according to Rules and found satisfactory ...	---	---	---	---

DETAILS OF TESTS SHOWING POSITION AND DESCRIPTION OF TESTS OF FORGINGS

Tests, to sk. Tens.str.in t/sq":	31.2	with	36.8 %	elong.	(forged)
"	"		30.6	"	36.5
Tests 75 Ø	"		36.6	"	28.9

Fee (if any chargeable) £ : :
To be paid at VIENNA



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Lloyd's Register Foundation

of Iron, state whether scrap or puddled Iron. If of Steel, state whether made on the Open Hearth process.

Received at _____ Office _____ 19__

Lloyd's Register of Shipping.

Order: 15878
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(Report on Vessel No. _____ Port _____)

No. 3280
continued!

SHIP ~~FORGINGS~~ CASTINGS. & Roll.

I have to report that the undermentioned Iron or Steel Forgings or Castings, manufactured by _____ of _____ for the Vessel No. _____, being built by _____ of _____ have been inspected by me as set forth below and found to be, so far as can be seen, _____

on ~~Castings~~ Castings. & roll.

Lloyd's
No. 4526 11163/64
HK.3.11.31

Vienna, 10th November 1931

Hans Kolbow

Rudder arms

	1 STERN FRAME	1	1 RUDDER FRAME	1	1 SIEMX	1
Material*	Siemens		Martin		Steel	
made	cast		cast		cast	
annealed	annealed		annealed		annealed	
Dimensions	360 i.Ø	359 i.Ø	179 i.Ø	362 i.Ø	359 i.Ø	357 i.Ø
Process on Inspection	finished		finished		finished	
When Inspected	13.8; 8.9; 3.11.31		19.8; 8.9; 3.11.31			
CASTINGS.						
Tests on Standard Test Pieces.						
Impact Test—						
per square inch	30.7	30.3	30.3	29.8	29.4	29.4
Extension per cent. ...	32.8	38.2	28.9	40.8	39.5	38.2
Bending Test—	120		degrees		good	
Time before fracture	10'		10'		10'	
Height from ground ...	satisfactory		satisfactory		satisfactory	
Other Test—						
Made according to Rules	satisfactory		satisfactory		satisfactory	
and found satisfactory ...						

SKETCHES OF FRAMES SHOWING POSITION AND DESCRIPTION OF WELDS OF FORGINGS

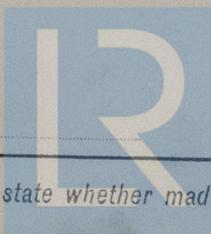
Upper plate	29mm	Tens.str.in Kg/mm ² : 42.2 with 28.0 % elong. (rolled)
"	15 1/4	" 45.8 " 25.0 " "
"	"	" 45.9 " 25.0 " "
"	"	" 45.6 " 25.0 " "
"	"	" 44.4 " 30.0 " "

Bend tests good!

(if any chargeable) £ : :

To be paid at VIENNA

Iron, state whether scrap or puddled Iron. If of Steel, state whether made on the Open Hearth process.



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