

**CERTIFICATE****No. A/15-508217 Rev 00**  
**Date 2015-06-18 Page 1/2**INSPECTION CERTIFICATE acc to  
EN 10 204 3.1Processkontroll Items AB  
Box 2088  
444 02 STORA HÖGA  
SWEDENINSPECTION STAMP  
QA-TUBE

Customer References		Sandvik References
751872	Customer order 2015-05-13	Order No. Subs No. ABSMT Dispatch note 405260 590853 48963/54 ABSMT No. C.Code 300-29926 46
003-00991	ITEMS	

Material description	Steel/material Designations
SEAMLESS STAINLESS COLD FINISHED HYDRAULIC TUBING	Sandvik SS 3R60 2353
Steel making process Electric furnace	

Technical requirements
SS 219713 Condition No -24

EXTENT OF DELIVERY								
It	Product designation		Heat	Lot	Pieces	Kg	M	
01	THT-3R60-12-1.5 12.00 X 1.50		541662	41497	24	59.0	144.00	
Total					24	59.0	144.00	
TEST RESULTS								
Chemical composition (weight%)								
Heat	C	Si	Mn	P	S	Cr	Ni	Mo
541662	0.020	0.39	1.79	0.028	0.009	17.31	13.14	2.53
	N							
541662	0.035							
Tensile test at room temperature								
	Yield strength		Tensile strength		Elongation			
	MPa	MPa	MPa		%			
Lot	Rp0.2	Rp1.0	Rm		A			
41497	294	334	572		57			
Following controls/tests have been satisfactorily performed:								
- Flattening test.								
- PMI-test.								
- Intergranular corrosion test acc. to EN ISO3651-2, Method A.								
Quality assurance - Lars-Åke Bergqvist / QA-manager								
MTC Service / Certificates								



- Leak test: Eddy current test acc to SS 114301/114305 E1
- Visual inspection and dimensional control.

**Heat Treatment:**

Solution annealed and quenched.

The raw material is free from radioactive contamination.

Material free from mercury contamination.

The number of tests are based on the size of the manufacturing lot before cutting to finished lengths.

The delivered products comply with the specifications and requirements of the order.

The material is manufactured according to a Quality system, approved and registered to ISO 9001:2008.

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