

**CERTIFICATE****No. A/15-497627 Rev 00**
Date 2015-05-05 Page 1/2INSPECTION CERTIFICATE acc to
EN 10 204 3.1Processkontroll Items AB
Box 2088
444 02 STORA HÖGA
SWEDENINSPECTION STAMP
QA-TUBE

Customer References		Sandvik References	
751778/HOLMGREN	Customer order 2015-04-22	Order No. 403245	Subs No. 589774
003-00991 ITEMS		ABSMT No. 300-28956	ABSMT Dispatch note 45675/54
		C.Code 46	

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	048113	40282	10	24.0	60.00		
Total				10	24.0	60.00		
KEY TO HEAT								
Heat Code		Heat No.						
048113		540195						
TEST RESULTS								
Chemical composition (weight%)								
Heat	C	Si	Mn	P	S	Cr	Ni	Mo
048113	0.018	0.37	1.63	0.030	0.0070	17.48	13.18	2.53
	N							
048113	0.040							
Tensile test at room temperature								
Yield strength			Tensile strength		Elongation			
MPa			MPa		%			
Lot	Rp0.2	Rp1.0	Rm		A			
40282	302	345	568		56			

Quality assurance - Lars-Åke Bergqvist / QA-manager
MTC Service / Certificates

**Following controls/tests have been satisfactorily performed:**

- 100% Flattening test according to EN ISO 8492
- PMI-test.
- Intergranular corrosion test acc. to EN ISO3651-2, Method A.
- 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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