



CERTIFICATE

No. A/12-291294 Rev 00
Date 2012-11-07 Page 1/2

INSPECTION CERTIFICATE acc to
EN 10 204 3.1

Processkontroll Items AB
Box 2088
444 02 STORA HÖGA
SWEDEN

INSPECTION STAMP
QA-TUBE

Customer References		Sandvik References						
711972	Customer order 2012-10-08	Order No. 307531 ABSMT No. 300-74021	Subs No. 536436 C.Code 46					
003-00991 ITEMS		ABSMT Dispatch note 32865/54						
Material description SEAMLESS STAINLESS COLD FINISHED HYDRAULIC TUBING		Steel/material Designations 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	533662	48412	20	49.0	120.00		
				Total	20	49.0	120.00	
TEST RESULTS								
Chemical composition (weight%)								
Heat	C	Si	Mn	P	S	Cr	Ni	Mo
533662	0.018	0.39	1.62	0.030	0.009	17.26	13.05	2.53
	N							
533662	0.035							
Tensile test at room temperature								
	Yield strength		Tensile strength		Elongation			
	MPa	MPa	MPa		%			
Lot	Rp0.2	Rp1.0	Rm		A			
48412	281	317	553		53			
Following controls/tests have been satisfactorily performed:								
- Flattening test.								
- PMI-test.								
- Intergranular corrosion test acc. to EN ISO3651-2, Method A.								
Quality assurance - Per Eriksson / 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.

The certificate is produced with EDP and valid without signature.