



CERTIFICATE

No. A/13-313684 **Rev 00**
Date 2013-02-13 **Page** 1/2

INSPECTION CERTIFICATE acc to
EN 10 204 3.1

Processkontroll Items AB
Box 2088
444 02 STORA HÖGA
SWEDEN

INSPECTION STAMP
OA-TUBE

Customer References		Sandvik References		
712406	Customer order 2013-02-04	Order No. 320155	Subs No. 543683	ABSMT Dispatch note 41695/54
003-00991	ITEMS	ABSMT No. 300-80340	C.Code 46	

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-3R60-8-1.5 8.00 X 1.50			534193	51548	50	71.0	300.00
						Total	50	71.0 300.00
TEST RESULTS								
Chemical composition (weight%)								
Heat	C	Si	Mn	P	S	Cr	Ni	Mo
534193	0.019	0.45	1.54	0.028	0.010	17.25	13.11	2.52
	N							
534193	0.043							
Tensile test at room temperature								
		Yield strength		Tensile strength		Elongation		
		MPa	MPa	MPa		%		
Lot		Rp0.2	Rp1.0	Rm		A		
51548		299	345	575		54		
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.