



CERTIFICATE

No. A/13-326155 Rev 00
Date 2013-04-09 Page 1/2

INSPECTION CERTIFICATE acc to
EN 10 204 3.1

PROCESSKONTROLL ITEMS AB
BOX 2088
444 02 STORA HÖGA

INSPECTION STAMP
QA-TUBE

Customer References		Sandvik References
712406	Customer order 2013-02-04	Order No. Subs No. ABSMT Dispatch note 320155 543684 41786/54 ABSMT No. C.Code 300-80341 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-3R60-16-2			534366	53650	20	86.0	120.00	
	16.00 X 2.00								
						Total	20	86.0	120.00
TEST RESULTS									
Chemical composition (weight%)									
Heat	C	Si	Mn	P	S	Cr	Ni	Mo	
534366	0.021	0.48	1.65	0.031	0.009	17.30	13.15	2.55	
	N								
534366	0.042								
Tensile test at room temperature									
	Yield strength		Tensile strength		Elongation				
	MPa	MPa	MPa		%				
Lot	Rp0.2	Rp1.0	Rm		A				
53650	298	339	570		56				
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.