



CERTIFICATE

No. A/11-195460

Rev 00

Date 2011-10-05

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		
710599/Holmgren	Customer order 2011-10-05	Order No. 262842	Subs No. 511798	ABSMT Dispatch note 02841/54
003-00991	ITEMS	ABSMT No. 300-52349	C.Code 58	

Material description	Steel/material Designations
SEAMLESS STAINLESS COLD FINISHED HYDRAULIC TUBING	Sandvik W.nr 5R75 1.4571 DIN EN no X 6 CRNIMOTI 17 12 2 1.4571
Steel making process Electric furnace	

Technical requirements
PED 97/23/EC EN 10216-5 TC1 DIN 17458, TC1 HRB MAX 90

EXTENT OF DELIVERY								
It	Product designation	Heat	Lot	Pieces	Kg	M		
01	THT-5R75-14-2 14.00 X 2.00	047781	96699	5	18.0	30.00		
				Total	5	18.0 30.00		
KEY TO HEAT			KEY TO LOT					
Heat Code	Heat No.		Lot Code	Lot No.				
047781	528424		96699	4850464/1-2				
TEST RESULTS								
Chemical composition (weight%)								
Heat	C	Si	Mn	P	S	Cr	Ni	Mo
047781	0.034	0.37	1.15	0.024	0.008	16.83	12.26	2.03
	Ti	N						
047781	0.38	0.013						
Tensile test at room temperature								
Lot	Yield strength		Tensile strength		Elongation			
	MPa	MPa	MPa		%			
	Rp0.2	Rp1.0	Rm		A			
96699	273	315	594		55			

Quality assurance - Ulrik Rodling / QA-manager Tube & Pipe
MTC Service / Certificates

**Hardness test**

	Min	Max
Lot	HRB	HRB
96699	82	83

Following controls/tests have been satisfactorily performed:

- Flattening test.
- PMI-test.
- Intergranular corrosion test acc. to EN ISO3651-2, Method A.
- Leak test: Eddy current test acc to EN 10246-2
- Visual inspection and dimensional control.

Heat Treatment:

Solution annealed and quenched.

Marking:

SANDVIK 5R75 EN 10216-5 TC1 WNR 1.4571 EN 1.4571 M S PK1 14.00 X 2.00 MM HT 52
8424 SZ LOS 4850464/1-2 DIN 2391/EN 10305-1 *QA-TUBE*

Approved acc. AD 2000-Merkblatt W0 and certified acc. to
Pressure Equipment Directive (97/23/EC) by
TUEV NORD; notified body, reg.no. 0045.

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.

The certificate is produced with EDP and valid without signature.

TEST RESULTS TRANSFERRED FROM CERTIFICATE NO A110952