



CERTIFICATE

No. A/10-109979

Rev 00

Date 2010-11-04

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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		
709099	Customer order 2010-09-13	Order No. 212124	Subs No. 184846	ABSMT Dispatch note 20936/54
003-00991	ITEMS	ABSMT No. 300-28688	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
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EXTENT OF DELIVERY								
It	Product designation	Heat	Lot	Pieces	Kg	M		
01	THT-3R60-6-1	047582	95055	78	59.0	468.00		
	6.00 X 1.00	047582	95057	57	44.0	342.00		
			Total	135	103.0	810.00		
KEY TO HEAT				KEY TO LOT				
Heat Code	Heat No.		Lot Code	Lot No.				
047582	525285		95055	351694				
			95057	351695				
TEST RESULTS								
Chemical composition (weight%)								
Heat	C	Si	Mn	P	S	Cr	Ni	Mo
047582	0.017	0.41	1.63	0.028	0.008	17.33	13.07	2.55
	N							
047582	0.037							

Quality assurance - Per Eriksson/ QA-manager Tube & Pipe
MTC Service / Certificates

**Tensile test at room temperature**

Lot	Yield strength		Tensile strength	Elongation
	MPa	MPa	MPa	%
	Rp0.2	Rp1.0	Rm	A
95055	300	338	608	58
	292	330	610	60
95057	303	367	604	56
	292	327	596	60

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 SS 114301/114305 E1
- Visual inspection and dimensional control.

Heat Treatment:

Solution annealed and quenched.

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 00040112
00040112