

**CERTIFICATE****No. A/13-310684****Rev 00****Date** 2013-01-31**Page** 1/2INSPECTION CERTIFICATE acc to  
EN 10 204 3.1Processkontroll Items AB  
Box 2088  
444 02 STORA HÖGA  
SWEDENINSPECTION STAMP  
QA-TUBE**Customer References**Customer  
order  
2013-01-25  
  
003-00991 ITEMS**Sandvik References**Order No. Subs No. ABSMT Dispatch note  
319125 543038 40807/54  
ABSMT No. C.Code  
300-79808 46**Material description**SEAMLESS STAINLESS COLD FINISHED  
HYDRAULIC TUBING**Steel making process**  
Electric furnace**Steel/material Designations**Sandvik SS  
3R60 2353**Technical requirements**SS 219713  
Condition No -24**EXTENT OF DELIVERY**

It	Product designation	Heat	Lot	Pieces	Kg	M
01	THT-3R60-6-1 6.00 X 1.00	534194	51645	150	113.0	900.00
Total				150	113.0	900.00

**TEST RESULTS****Chemical composition (weight%)**

Heat	C	Si	Mn	P	S	Cr	Ni	Mo
534194	0.015	0.38	1.59	0.029	0.010	17.30	13.13	2.53
N								
534194	0.033							

**Tensile test at room temperature**

Lot	Yield strength		Tensile strength	Elongation
	MPa	MPa	MPa	%
	Rp0.2	Rp1.0	Rm	A
51645	250	286	534	64

**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.