

**CERTIFICATE****No. A/15-476807****Rev 00****Date 2015-02-05****Page 1/2**INSPECTION CERTIFICATE acc to
EN 10 204 3.1Processkontroll Items AB
Box 2088
444 02 STORA HÖGA
SWEDENINSPECTION STAMP
QA-TUBE**Customer References**Customer
order
2015-01-19

003-00991 ITEMS**Sandvik References**Order No. Subs No. ABSMT Dispatch note
393417 584478 39862/54
ABSMT No. C.Code
300-24485 46**Material description**SEAMLESS STAINLESS COLD FINISHED
HYDRAULIC TUBING**Steel making process**

Electric furnace

Steel/material DesignationsSandvik SS
3R60 2353**Technical requirements**SS 219713
Condition No -24**EXTENT OF DELIVERY**

It	Product designation	Heat	Lot	Pieces	Kg	M
03	THT-3R60-12-1.5 12.00 X 1.50	540919	36060	10	24.0	60.00
Total				10	24.0	60.00

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

Heat	C	Si	Mn	P	S	Cr	Ni	Mo
540919	0.019	0.40	1.60	0.031	0.007	17.34	13.09	2.54
N								
540919	0.036							

Tensile test at room temperature

Lot	Yield strength		Tensile strength	Elongation
	MPa	MPa	MPa	%
36060	Rp0.2	Rp1.0	Rm	A
	290	326	556	51

Following controls/tests have been satisfactorily performed:

- Flattening test according to EN ISO 8492
- PMI-test.
- Intergranular corrosion test acc. to EN ISO3651-2, Method A.

Quality assurance - Lars-Åke Bergqvist / 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.

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