

## CERTIFICATE

No. A/12-287123

Date 2012-10-19 Page 1/2

Rev 00

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

Customer

order

2012-10-16

003-00991 ITEMS

712003

Sandvik References

Order No. Subs No. ABSMT Dispatch note

308362 536915 33495/54

ABSMT No. C.Code 300-74451 46

3 00001 TERMS

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

EXTENT OF DELIVERY

 It
 Product designation
 Heat
 Lot
 Pieces
 Kg
 M

 01 THT-3R60-8-1.5
 047793 97192 30 44.0
 180.00

8.00 X 1.50

Total 30 44.0 180.00

KEY TO HEAT KEY TO LOT

Heat Code Heat No. Lot Code Lot No.

047793 529693 97192 361719

TEST RESULTS

Chemical composition (weight%)

Heat C Si Mn P S Cr Ni Mo

047793 0.017 0.39 1.65 0.030 0.007 17.29 13.24 2.54

N

047793 0.032

Tensile test at room temperature

Yield strength Tensile strength Elongation

MPa MPa MPa % Rp0.2 Rp1.0 RmΑ T<sub>i</sub>Ot. 97192 273 571 304 58 290 321 586 58

Quality assurance - Per Eriksson / QA-manager

MTC Service / Certificates



## 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 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.

TEST RESULTS TRANSFERRED FROM CERTIFICATE NO 00044616