

## CERTIFICATE

No. A/10-942561

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Rev 00

INSPECTION CERTIFICATE acc to EN 10 204 3.1

Processkontroll Items AB Box 2088

444 02 STORA HÖGA

INSPECTION STAMP QA-TUBE

Customer References

Sandvik References

SWEDEN

Customer 708351 order

SEAMLESS STAINLESS COLD FINISHED

Order No. Subs No. ABSMT Dispatch note 186295 164710 46802/54

2010-02-22

ABSMT No. C.Code 300-17389 46

003-00991 ITEMS

HYDRAULIC TUBING

Material description

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 Kg Heat Lot Pieces M 047330 92826 01 THT-3R60-6-1 90 69.0 540.00

6.00 X 1.00

Total 90 69.0 540.00

KEY TO HEAT KEY TO LOT

Heat Code Heat No. Lot Code Lot No.

047330 522936 92826 348456

TEST RESULTS

Chemical composition (weight%)

Heat C Si Mn  $\mathtt{Cr}$ Νi Mo Ρ S 0.028 0.010 047330 0.017 0.36 13.13 2.52

1.72 17.29

N

047330 0.046

Tensile test at room temperature

Yield strength Tensile strength Elongation

MPa MPa MPa % Rp0.2 Rp1.0 RmT<sub>i</sub>Ot. Α 92826 300 603 331 59 305 337 611 59

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



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## 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 00038767