

CERTIFICATE

No. A/13-326155 Date

2013-04-09

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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 Customer

order

320155 543684

Order No. Subs No. ABSMT Dispatch note 41786/54

2013-02-04

ABSMT No. C.Code

300-80341 46

003-00991 ITEMS

712406

Material description

SEAMLESS STAINLESS COLD FINISHED

Steel/material Designations Sandvik

HYDRAULIC TUBING

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 534366 53650 20 86.0 120.00 01 THT-3R60-16-2

16.00 X 2.00

20 86.0 120.00 Total

8

TEST RESULTS

534366

Chemical composition (weight%)

Si CrNi Mo Heat C Mn P S 0.009 0.031 17.30 13.15 2.55

0.021 1.65 534366 0.48

> N 0.042

Tensile test at room temperature Yield strength Tensile strength Elongation

MPa MPa MPa

Rm Rp0.2 Rp1.0 A Lot. 298 339 570 56 53650

Following controls/tests have been satisfactorily performed:

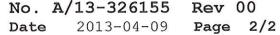
- Flattening test.

- PMI-test.

- Intergranular corrosion test acc. to EN ISO3651-2, Method A.

Quality assurance - Per Eriksson / QA-manager MTC Service / Certificates

CERTIFICATE





- 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.