



A03 Document No.:
A 2014/05/012204-JAN

Sheet : 1 / 3



A01, A05
 Manufacturer: TRINECKÉ ŽELEZÁRNY a.s. /Průmyslová 1000 /Staré Město /739 61 Třinec /Czech Republic
 Production mill : VT - VALCOVNA TRUB / Výstavní 1132 / 706 02 Ostrava - Vítkovice / Czech Republic

A07 Purchaser's order No.:	A08 Works order No./ Contract No.:	A09 Consignee:				
011786-A	9700226852 0041299196 / 176					
A10 Advice-Note No.: 14/05/005426/02 26.05.2014						
A02 Type of inspection document: Inspection certificate 3.1, EN 10204:2004						
B01, B09-B11 Product, product dimensions, specification	B08, B13 Quantity	B02.1 Steel designation	B02.2 Product / Dimensional standard			
Seamless Steel Line Pipes Hot Rolled 6.625 in x 0.562 in	28 pcs 1104.47 ft 18625 kgs	X52/PSL1 X42/B/PSL1 Gr.B Gr.C Gr.B Gr.B	API SPEC 5L 45. EDITION API SPEC 5L 45. EDITION ASTM A106/A106M 11/2011 ASTM A106/A106M 11/2011 ASTM A53/A53M 03/2012 ASME SA106/SA106M 07/2011 ASME B36.10 10/2004			
B04 Product delivery condition: normalized						
B03 Supplementary requirements: ASME SA53/SA53M 2010 EDITION/2011 ADDENDA, ASME SA106/SA106M 2010 EDITION/2011 ADDENDA, API MONOGRAM Bevelled ends 30-35°, root facet 1,6mm ±0,8mm						
Requirements :						
B07.1 Heat No.	B07.2 Specimen No.	C10* Specimen shape	C11 Yield Strength R _{0.2} psi	C12 Tensile Strength R _m psi	C13 Elongation Z* %	C14 Reduction of area Z %
			min 52200	min 70000	min 30	
		C02 Specimen direction: L	C03 Test temperature(°F): 70	C15 Test method: ASTM A370		
T12928	26588/P	P	58305	78755	44.6	-
T12929	26581/P	P	56275	78901	44.2	-
T12951	26581/P	P	57290	79191	42.6	-
T12960	26585/P	P	57145	78320	45.4	-
T12960	26488/P	P	58610	79771	43.4	-
* P - Flat specimen K - Round specimen						
Z01 ALL PRODUCTS MEET REQUIREMENTS OF ABOVE MENTIONED STANDARDS AND REQUIREMENTS SPECIFIED IN ORDER THE DECLARATION IS ISSUED UNDER THE SOLE RESPONSIBILITY OF THE SUPPLIER						

Z02 Confirmed: Merta Ubrová, Ing.,
Head of Attestation, Releasing and External Inspection VT, Independent authorized agent

Z02
Ostrava-Vitkovice :
03.08.2014

tel.: 00420/58/560/2180
fax: 00420/58/560/2184



TRINECKÉ ŽELEZÁRNY, a.s.
Průmyslová 1000, Staré Město
739 61 Třinec 131

Z03 Independent authorized agent



A01, A06

Manufacturer: TRINECKÉ ŽELEZÁŘNY, a.s. /Průmyslová 1000 /Staré Město /739 61 Třinec /Czech Republic
Production mill : VT - VALCOVNA TRUB / Výtavní 1132 / 706 02 Ostrava - Vítkovice / Czech Republic

B07.1 Heat No.	B07.2 Specimen No.	C40 Impact test KV ft.lb		C44 Lateral expansion mm		C45 Shear fracture area %	
		C41 0.394in x 0.394in					
C02 Specimen direction: L		C03 Test temperature(°F): -4		C46 Test method: ASTM A370			
		C42 Individual values	C43 Mean value	C44.1 Individual values	C44.2 Mean value	C45.1 Individual values	C45.2 Mean value
T12928	26588/P	194 201 218	204				
T12929	26591/P	204 220 209	211				
T12951	26581/P	199 ≥221 215	≥211				
T12960	26585/P	148 157 155	153				
T12960	26486/P	≥221 218 218	≥219				

B07.1 Heat No.	B07.2 Specimen No.	C30 Hardness HBW NACE MR0103-2012,NACE MR0175-2009 max 237	
		C33 Test method: ISO 6506-1	
		C31 Individual values	C32 Mean value
T12928	26588/P	161 161 159	160
T12929	26591/P	158 163 163	161
T12951	26581/P	160 158 159	159
T12960	26585/P	161 160 160	160
T12960	26486/P	158 154 153	155

C70 Steelmaking process:
Basic oxygen furnace

C71-C92
Heat chemical analysis in %: Ceq max.: 0.43

B07.1 Heat No.	C	Mn	Si	P	S	Cu	Ni	Cr	Mo	V	Ti	Al	Nb	B	Ceq
T12928	0.18	1.17	0.20	0.014	0.004	0.03	0.02	0.18	0.006	0.036	0.001	0.025	0.001	0.0004	0.42
T12929	0.17	1.18	0.20	0.013	0.003	0.02	0.02	0.18	0.011	0.038	0.001	0.025	0.001	0.0003	0.42
T12951	0.17	1.17	0.20	0.013	0.004	0.02	0.02	0.19	0.006	0.037	0.001	0.031	0.001	0.0004	0.41
T12960	0.17	1.16	0.20	0.016	0.023	0.02	0.03	0.18	0.012	0.032	0.001	0.027	0.001	0.0004	0.41

Product chemical analysis in %: Ceq max.: 0.43

B07.1 Heat No.	B07.2 Specimen No.	C	Mn	Si	P	S	Cu	Ni	Cr	Mo	V	Ti	Al	Nb	B	Ceq
T12928	26588/P	0.18	1.18	0.20	0.013	0.002	0.03	0.02	0.18	0.004	0.036	0.001	0.024	0.001	0.0004	0.42
T12928	26590/P	0.17	1.16	0.21	0.013	0.002	0.03	0.02	0.18	0.008	0.037	0.001	0.026	0.001	0.0003	0.41
T12929	26591/P	0.17	1.17	0.21	0.013	0.002	0.02	0.02	0.20	0.011	0.037	0.001	0.029	0.001	0.0003	0.42
T12929	26583/P	0.17	1.17	0.21	0.013	0.003	0.02	0.02	0.20	0.011	0.037	0.001	0.027	0.001	0.0003	0.42
T12951	26581/P	0.17	1.15	0.19	0.012	0.002	0.01	0.02	0.18	0.003	0.035	0.001	0.030	0.001	0.0004	0.41
T12951	26582/P	0.17	1.16	0.20	0.012	0.002	0.02	0.02	0.19	0.006	0.037	0.001	0.033	0.001	0.0002	0.41
T12960	26585/P	0.17	1.15	0.20	0.018	0.020	0.02	0.03	0.17	0.012	0.032	0.001	0.028	0.001	0.0003	0.41
T12960	26589/P	0.17	1.15	0.20	0.018	0.019	0.02	0.03	0.17	0.012	0.032	0.001	0.027	0.001	0.0003	0.41

Z02 Confirmed: Maria Uhrová, Ing.,
Head of Attestation, Releasing and External Inspection VT, independent authorized agent

Z02

Ostrava-Vitkovice
03.06.2014tel.: 00420/59/360/2160
fax: 00420/59/360/2164**TRINECKÉ ŽELEZÁŘNY, a.s.**
Průmyslová 1000, Staré Město
739 61 Třinec

131

Z03 independent authorized agent

A01, A05
Manufacturer: TŘINECKÉ ŽELEZÁŘNY s.s. /Průmyslová 1000 /Staré Město /739 61 Třinec /Czech Republic
Production mill : VT - VALCOVNA TRUB / Výstavní 1132 / 706 02 Ostrava - Vítkovice / Czech Republic

Product chemical analysis in %:																Ceq max.: 0.43	
B07.1 Heat No.	B07.2 Specimen No.	C	Mn	Si	P	S	Cu	Ni	Cr	Mo	V	Ti	Al	Nb	B	Ceq	
T12980	26486/P	0.18	1.14	0.20	0.012	0.003	0.02	0.02	0.19	0.007	0.034	0.001	0.031	0.001	0.0003	0.42	
T12980	26487/P	0.17	1.12	0.20	0.017	0.019	0.02	0.03	0.18	0.010	0.034	0.001	0.028	0.001	0.0002	0.40	

C80, D81, D82, D51
Other requirements:

Visual and dimensional inspection		- satisfactory
Flattening test	ASTM A 530	- satisfactory
Hydrostatic test - test pressure	2970 psi/5s	- satisfactory
Residual magnetism	API 5L	- satisfactory

B15 Supplementary information:

Heat No.: T12928 - 12 pcs, 475.72 ft, 8136 kgs
Tube No.: 26609,26622,26626,26588,26580,26624,26631,26633,26634,26632,26635,26636

Heat No.: T12929 - 8 pcs, 321.31 ft, 5492 kgs
Tube No.: 26601,26610,26605,26608,26589,26607,26602,26604

Heat No.: T12951 - 3 pcs, 114.99 ft, 1968 kgs
Tube No.: 26582,26586,26583

Heat No.: T12960 - 5 pcs, 192.45 ft, 3229 kgs
Tube No.: 26585,26587,26589,26486,26487

The capacity of the Charpy Impact Machine was exceeded at the Impact Test Values (see C42, values ≥ 221) acc. to the test method ASTM A370 at the test temperature of -4°F.

The tubes are free of mercury contamination and no weld repair was performed.

The hardness test values in HBW conform to the request max. 22 HRC (max. 237 HBW).

Width of gauge length of the tension test specimen at a room temperature - 1 in.

Data mentioned in USC Units were converted from SI Units.

Appendix: Heat treatment report.

Z02 Confirmed: Marta Uřivová, Ing.,
Head of Attestation, Releasing and External Inspection VT, independent authorized agent

Z02

Ostrava-Vítkovice :
03.06.2014


tel.: 00420/58/5602160
fax: 00420/58/5602164



TŘINECKÉ ŽELEZÁŘNY, a.s.
Průmyslová 1000, Staré Město
739 61 Třinec

131

Z03 Independent authorized agent

 TŘINECKÉ ŽELEZÁŘNY MORAVIA STEEL		HEAT TREATMENT REPORT Appendix at Inspection certificate 3.1 A 2014/05/012204-JAN	
DIMENSION [inch]:	6.625x0.562	SHOP ORDER No.:	9700226852
HEAT No. :		T12928 T12929 T12951 T12960	
MATERIAL SPECIFICATION AND GRADE :		X52 Gr.B Gr.C X42/B	
TYPE OF HEAT TREATMENT :		NORMALIZED	
MINIMUM TEMPERATURE:		1652°F	

Ostrava-Vítkovice: 03.06.2014

tel: 00420/59/560/2160
fax: 00420/59/560/2164



TŘINECKÉ ŽELEZÁŘNY, a.s.
Průmyslová 1000, Staré Město
.....739 61 Třinec.....¹³¹
Independent authorized agent



A03 Document No.:
A 2014/05/012204-JAN

Sheet : 1 / 3



A01, A05
 Manufacturer: TRINECKÉ ŽELEZÁRNY a.s. /Průmyslová 1000 /Staré Město /739 61 Třinec /Czech Republic
 Production mill : VT - VALCOVNA TRUB / Výstavní 1132 / 706 02 Ostrava - Vítkovice / Czech Republic

A07 Purchaser's order No.:	A08 Works order No./ Contract No.:	A09 Consignee:
011786-A	9700226852 0041299196 / 176	

A10 Advice-Note No.:
14/05/005426/02 26.05.2014

A02 Type of inspection document:
Inspection certificate 3.1, EN 10204:2004

B01, B09-B11 Product, product dimensions, specification	B08, B13 Quantity	B02.1 Steel designation	B02.2 Product / Dimensional standard
Seamless Steel Line Pipes Hot Rolled 6.625 in x 0.562 in	28 pcs 1104.47 ft 18625 kgs	X52/PSL1 X42/B/PSL1 Gr.B Gr.C Gr.B Gr.B	API SPEC 5L 45. EDITION API SPEC 5L 45. EDITION ASTM A106/A106M 11/2011 ASTM A106/A106M 11/2011 ASTM A53/A53M 03/2012 ASME SA106/SA106M 07/2011 ASME B36.10 10/2004

B04 Product delivery condition:
normalized

B03 Supplementary requirements:
ASME SA53/SA53M 2010 EDITION/2011 ADDENDA, ASME SA106/SA106M 2010 EDITION/2011 ADDENDA, API MONOGRAM
Bevelled ends 30-35°, root facet 1,6mm +0,8mm

Requirements :

B07.1 Heat No.	B07.2 Specimen No.	C10 Specimen shape	C11 Yield Strength R _{0.2} psi	C12 Tensile Strength R _m psi	C13 Elongation 2" %	C14 Reduction of area Z %
			min 52200	min 70000	min 30	
		C02 Specimen direction: L	C03 Test temperature(°F): 70		C15 Test method:	ASTM A370
T12928	26588/P	P	58305	78755	44.6	-
T12929	26581/P	P	56275	78901	44.2	-
T12951	26581/P	P	57290	79191	42.6	-
T12960	26585/P	P	57145	78320	45.4	-
T12960	26488/P	P	58610	79771	43.4	-

* P - Flat specimen
K - Round specimen

Z01
 ALL PRODUCTS MEET REQUIREMENTS OF ABOVE MENTIONED STANDARDS AND REQUIREMENTS SPECIFIED IN ORDER
 THE DECLARATION IS ISSUED UNDER THE SOLE RESPONSIBILITY OF THE SUPPLIER

Z02 Confirmed: Merta Urvová, Ing.,
 Head of Attestation, Releasing and External Inspection VT, Independent authorized agent

Z02
 Ostrava-Vítkovice :
 03.08.2014

tel.: 00420/58/560/2180
 fax: 00420/58/560/2184



TRINECKÉ ŽELEZÁRNY, a.s.
 Průmyslová 1000, Staré Město
 739 61 Třinec 131

Z03 Independent authorized agent



A01, A06

Manufacturer: TRINECKÉ ŽELEZÁŘNY, a.s. /Průmyslová 1000 /Staré Město /739 61 Třinec /Czech Republic
Production mill : VT - VALCOVNA TRUB / Výtavní 1132 / 706 02 Ostrava - Vítkovice / Czech Republic

B07.1 Heat No.	B07.2 Specimen No.	C40 Impact test KV ft.lb		C44 Lateral expansion mm		C45 Shear fracture area %	
		C41 0.394in x 0.394in					
C02 Specimen direction: L		C03 Test temperature(°F): -4		C46 Test method: ASTM A370			
		C42 Individual values	C43 Mean value	C44.1 Individual values	C44.2 Mean value	C45.1 Individual values	C45.2 Mean value
T12928	26588/P	194 201 218	204				
T12929	26591/P	204 220 209	211				
T12951	26581/P	199 ≥221 215	≥211				
T12960	26585/P	148 157 155	153				
T12960	26486/P	≥221 218 218	≥219				

B07.1 Heat No.	B07.2 Specimen No.	C30 Hardness HBW NACE MR0103-2012,NACE MR0175-2009 max 237	
		C33 Test method: ISO 6506-1	
		C31 Individual values	C32 Mean value
T12928	26588/P	161 161 159	160
T12929	26591/P	158 163 163	161
T12951	26581/P	160 158 159	159
T12960	26585/P	161 160 160	160
T12960	26486/P	158 154 153	155

C70 Steelmaking process:
Basic oxygen furnace

C71-C92
Heat chemical analysis in %: Ceq max.: 0.43

B07.1 Heat No.	C	Mn	Si	P	S	Cu	Ni	Cr	Mo	V	Ti	Al	Nb	B	Ceq
T12928	0.18	1.17	0.20	0.014	0.004	0.03	0.02	0.18	0.006	0.036	0.001	0.025	0.001	0.0004	0.42
T12929	0.17	1.18	0.20	0.013	0.003	0.02	0.02	0.18	0.011	0.038	0.001	0.025	0.001	0.0003	0.42
T12951	0.17	1.17	0.20	0.013	0.004	0.02	0.02	0.19	0.006	0.037	0.001	0.031	0.001	0.0004	0.41
T12960	0.17	1.16	0.20	0.016	0.023	0.02	0.03	0.18	0.012	0.032	0.001	0.027	0.001	0.0004	0.41

Product chemical analysis in %: Ceq max.: 0.43

B07.1 Heat No.	B07.2 Specimen No.	C	Mn	Si	P	S	Cu	Ni	Cr	Mo	V	Ti	Al	Nb	B	Ceq
T12928	26588/P	0.18	1.18	0.20	0.013	0.002	0.03	0.02	0.18	0.004	0.036	0.001	0.024	0.001	0.0004	0.42
T12928	26590/P	0.17	1.16	0.21	0.013	0.002	0.03	0.02	0.18	0.008	0.037	0.001	0.026	0.001	0.0003	0.41
T12929	26591/P	0.17	1.17	0.21	0.013	0.002	0.02	0.02	0.20	0.011	0.037	0.001	0.029	0.001	0.0003	0.42
T12929	26583/P	0.17	1.17	0.21	0.013	0.003	0.02	0.02	0.20	0.011	0.037	0.001	0.027	0.001	0.0003	0.42
T12951	26581/P	0.17	1.15	0.19	0.012	0.002	0.01	0.02	0.18	0.003	0.035	0.001	0.030	0.001	0.0004	0.41
T12951	26582/P	0.17	1.16	0.20	0.012	0.002	0.02	0.02	0.19	0.006	0.037	0.001	0.033	0.001	0.0002	0.41
T12960	26585/P	0.17	1.15	0.20	0.018	0.020	0.02	0.03	0.17	0.012	0.032	0.001	0.028	0.001	0.0003	0.41
T12960	26589/P	0.17	1.15	0.20	0.018	0.019	0.02	0.03	0.17	0.012	0.032	0.001	0.027	0.001	0.0003	0.41

Z02 Confirmed: Maria Uhrová, Ing.,
Head of Attestation, Releasing and External Inspection VT, independent authorized agent

Z02

Ostrava-Vitkovice
03.06.2014tel.: 00420/59/360/2160
fax: 00420/59/360/2164**TRINECKÉ ŽELEZÁŘNY, a.s.**
Průmyslová 1000, Staré Město
739 61 Třinec

131

Z03 independent authorized agent

A01, A05
Manufacturer: TŘINECKÉ ŽELEZÁŘNY s.s. /Průmyslová 1000 /Staré Město /739 61 Třinec /Czech Republic
Production mill : VT - VALCOVNA TRUB / Výstavní 1132 / 706 02 Ostrava - Vítkovice / Czech Republic

Product chemical analysis in %:																Ceq max : 0.43	
B07.1 Heat No.	B07.2 Specimen No.	C	Mn	Si	P	S	Cu	Ni	Cr	Mo	V	Ti	Al	Nb	B	Ceq	
T12980	26486/P	0.18	1.14	0.20	0.012	0.003	0.02	0.02	0.19	0.007	0.034	0.001	0.031	0.001	0.0003	0.42	
T12980	26487/P	0.17	1.12	0.20	0.017	0.019	0.02	0.03	0.18	0.010	0.034	0.001	0.028	0.001	0.0002	0.40	

C80, D81, D82, D51
Other requirements:

Visual and dimensional inspection		- satisfactory
Flattening test	ASTM A 530	- satisfactory
Hydrostatic test - test pressure	2970 psi/5s	- satisfactory
Residual magnetism	API 5L	- satisfactory

B15 Supplementary information:

Heat No.: T12928 - 12 pcs, 475.72 ft, 8136 kgs
Tube No.: 26609,26622,26626,26588,26580,26624,26631,26633,26634,26632,26635,26636

Heat No.: T12929 - 8 pcs, 321.31 ft, 5492 kgs
Tube No.: 26601,26610,26605,26608,26589,26607,26602,26604

Heat No.: T12951 - 3 pcs, 114.99 ft, 1968 kgs
Tube No.: 26582,26586,26583

Heat No.: T12960 - 5 pcs, 192.45 ft, 3229 kgs
Tube No.: 26585,26587,26589,26486,26487

The capacity of the Charpy Impact Machine was exceeded at the Impact Test Values (see C42, values ≥ 221) acc. to the test method ASTM A370 at the test temperature of -4°F.

The tubes are free of mercury contamination and no weld repair was performed.

The hardness test values in HBW conform to the request max. 22 HRC (max. 237 HBW).

Width of gauge length of the tension test specimen at a room temperature - 1 in.

Data mentioned in USC Units were converted from SI Units.

Appendix: Heat treatment report.

Z02 Confirmed: Marta Uřivová, Ing.,
Head of Attestation, Releasing and External Inspection VT, independent authorized agent

Z02

Ostrava-Vítkovice :
03.06.2014


tel.: 00420/58/5602160
fax: 00420/58/5602164



TŘINECKÉ ŽELEZÁŘNY, a.s.
Průmyslová 1000, Staré Město
739 61 Třinec

131

Z03 Independent authorized agent

 TŘINECKÉ ŽELEZÁŘNY MORAVIA STEEL		HEAT TREATMENT REPORT Appendix at Inspection certificate 3.1 A 2014/05/012204-JAN	
DIMENSION [inch]:	6.625x0.562	SHOP ORDER No.:	9700226852
HEAT No. :		T12928 T12929 T12951 T12960	
MATERIAL SPECIFICATION AND GRADE :		X52 Gr.B Gr.C X42/B	
TYPE OF HEAT TREATMENT :		NORMALIZED	
MINIMUM TEMPERATURE:		1652°F	

Ostrava-Vítkovice: 03.06.2014

tel: 00420/59/560/2160
fax: 00420/59/560/2164



TŘINECKÉ ŽELEZÁŘNY, a.s.
Průmyslová 1000, Staré Město
.....739 61 Třinec.....¹³³
Independent authorized agent



A83 Document No.:
A 2014/06/000813-JAN

Sheet : 1 / 3



A91, A95
 Manufacturer: TRINECKÉ ŽELEZÁRNY, a.s. /Průmyslová 1000 /Staré Město /739 61 Třinec /Czech Republic
 Production mill : VT - VALCOVNA TRUB / Vystavní 1132 / 708 02 Ostrava - Vítkovice / Czech Republic

A87 Purchaser's order No.:		A88 Works order No./ Contract No.:		A89 Consignee:		
011786-A		9700226852 0041299196 / 176				
A10 Advice-Note No.: 14/06/000181/02 02.06.2014						
A82 Type of inspection document: Inspection certificate 3.1, EN 10204:2004						
B01, B09-B11 Product, product dimensions, specification		B08, B13 Quantity	B02.1 Steel designation		B02.2 Product / Dimensional standard	
Seamless Steel Line Pipes Hot Rolled 6.625 in x 0.562 in		30 pcs 1188.76 ft 20341 kgs	X52/PSL1 X42/B/PSL1 Gr.B Gr.C Gr.B Gr.B		API SPEC 5L 45. EDITION API SPEC 5L 45. EDITION ASTM A106/A106M 11/2011 ASTM A106/A106M 11/2011 ASTM A53/A53M 03/2012 ASME SA106/SA106M 07/2011 ASME B36.10 10/2004	
B04 Product delivery condition: normalized						
B03 Supplementary requirements: ASME SA53/SA53M 2010 EDITION/2011 ADDENDA, ASME SA106/SA106M 2010 EDITION/2011 ADDENDA, API MONOGRAM Beveled ends 30-35°, root facet 1,8mm +/-0,8mm						
Requirements :						
B07.1 Heat No.	B07.2 Specimen No.	C10 Specimen shape	C11 Yield Strength R _{0.2} psi	C12 Tensile Strength R _m psi	C13 Elongation Z %	C14 Reduction of area Z %
			min 62200	min 70000	min 30	
C02 Specimen direction:		C03 Test temperature(°F):		C15 Test method:		
L		70		ASTM A370		
T12928	26588/P	P	58305	78755	44.8	-
T12929	26591/P	P	56275	78901	44.2	-
T12951	26581/P	P	57290	79181	42.6	-
* P - Flat specimen K - Round specimen						
Z01 ALL PRODUCTS MEET REQUIREMENTS OF ABOVE MENTIONED STANDARDS AND REQUIREMENTS SPECIFIED IN ORDER THE DECLARATION IS ISSUED UNDER THE SOLE RESPONSIBILITY OF THE SUPPLIER						

Z02 Confirmed: Marta Uhravá, Ing.,
Head of Attestation, Releasing and External inspection VT, Independent authorized agent



TRINECKÉ ŽELEZÁRNY, a.s.
 Průmyslová 1000, Staré Město
 739 61 Třinec 131

Z02

Ostrava-Vitkovice :
04.06.2014

tel.: 00420/59/560/2180
 fax: 00420/59/560/2184

Z03 Independent authorized agent



AD1, A06

Manufacturer: TŘINECKÉ ŽELEZÁŘNY, a.s. /Průmyslová 1000 /Staré Město /739 61 Třinec /Czech Republic
Production mill : VT - VALCOVNA TRUB / Vystavní 1132 / 706 02 Ostrava - Vítkovice / Czech Republic

B07.1 Heat No.	B07.2 Specimen No.	C40 Impact test KV ft.lb		C44 Lateral expandt mm		C45 Shear fracture area %	
		C41 0.394in x 0.394in					
		C02 Specimen direction: L		C03 Test temperature(°F): -4		C46 Test method: ASTM A370	
		C42 Individual values	C43 Mean value	C44.1 Individual values	C44.2 Mean value	C45.1 Individual values	C45.2 Mean value
T12928	26588/P	~194 ~201 ~218	~204				
T12929	26591/P	~204 ~220 ~209	~211				
T12951	26581/P	~199 ~221 ~215	~211				

B07.1 Heat No.	B07.2 Specimen No.	C30 Hardness HBW			
		NACE MR0103-2012,NACE MR0175-2009 max 237			
		C33 Test method: ISO 6506-1			
		C31 Individual values	C32 Mean value		
T12928	26588/P	181 161 159	160		
T12929	26591/P	158 163 163	161		
T12951	26581/P	160 158 159	159		

C70 Steelmaking process:
Basic oxygen furnace

C71-C82 Heat chemical analysis in %:
Ceq max.: 0.43

B07.1 Heat No.	C	Mn	Si	P	S	Cu	Ni	Cr	Mo	V	Ti	Al	Nb	B	Ceq
T12928	0.18	1.17	0.20	0.014	0.004	0.03	0.02	0.18	0.005	0.036	0.001	0.025	0.001	0.0004	0.42
T12929	0.17	1.18	0.20	0.013	0.003	0.02	0.02	0.19	0.011	0.036	0.001	0.025	0.001	0.0003	0.42
T12951	0.17	1.17	0.20	0.013	0.004	0.02	0.02	0.19	0.005	0.037	0.001	0.031	0.001	0.0004	0.41

Product chemical analysis in %:
Ceq max.: 0.43

B07.1 Heat No.	B07.2 Specimen No.	C	Mn	Si	P	S	Cu	Ni	Cr	Mo	V	Ti	Al	Nb	B	Ceq
T12928	26588/P	0.18	1.18	0.20	0.013	0.002	0.03	0.02	0.18	0.004	0.036	0.001	0.024	0.001	0.0004	0.42
T12928	26590/P	0.17	1.16	0.21	0.013	0.002	0.03	0.02	0.18	0.008	0.037	0.001	0.028	0.001	0.0003	0.41
T12929	26591/P	0.17	1.17	0.21	0.013	0.002	0.02	0.02	0.20	0.011	0.037	0.001	0.029	0.001	0.0003	0.42
T12929	26593/P	0.17	1.17	0.21	0.013	0.003	0.02	0.02	0.20	0.011	0.037	0.001	0.027	0.001	0.0003	0.42
T12951	26581/P	0.17	1.15	0.19	0.012	0.002	0.01	0.02	0.18	0.003	0.035	0.001	0.030	0.001	0.0004	0.41
T12951	26582/P	0.17	1.16	0.20	0.012	0.002	0.02	0.02	0.19	0.008	0.037	0.001	0.033	0.001	0.0002	0.41

C80, D01, D02, D01
Other requirements:

Visual and dimensional inspection	- satisfactory
-----------------------------------	----------------

Z02 Confirmed: Mens Urvová, Ing.,
Head of Attestation, Releasing and External Inspection VT, Independent authorized agent



TŘINECKÉ ŽELEZÁŘNY, a.s.
Průmyslová 1000, Staré Město
739 61 Třinec 131

Z02

Ostrava-Vitkovice :
04.06.2014

tel: 00420/58/500/2160
fax: 00420/58/500/2164

Z03 Independent authorized agent



A01, A05

 Manufacturer: TŘINECKÉ ŽELEZÁŘNY, a.s. /Průmyslová 1000 /Staré Město /739 81 Třinec /Czech Republic
 Production mill : VT – VALCOVNA TRUB / Výstavň 1132 / 706 02 Ostrava – Vítkovice / Czech Republic

Flattening test	ASTM A 530	- satisfactory
Hydrostatic test - test pressure	2970 psi/5s	- satisfactory
Residual magnetism	API 5L	- satisfactory

B15 Supplementary information:

Heat No.: T12928 - 18 pcs, 707.87 ft, 12109 kgs

Tube No.: 26613,26617,26614,26615,26592,26629,26630,26628,26611,26618,26612,26616,26623,26625,26619,26621,26620,26627

Heat No.: T12929 - 10 pcs, 400.97 ft, 6885 kgs

Tube No.: 26596,26593,26594,26591,26596,26598,26597,26600,26603,26606

Heat No.: T12951 - 2 pcs, 79.92 ft, 1367 kgs

Tube No.: 26584,26581

80 % of capacity of the Charpy Impact Machine was exceeded at the Impact Test Values (see values marked with " - ").

The tubes are free of mercury contamination and no weld repair was performed.

The hardness test values in HBW conform to the request max. 22 HRC (max. 237 HBW).

Width of gauge length of the tension test specimen at a room temperature - 1 in.

Data mentioned in USC Units were converted from SI Units.

Appendix: Heat treatment report.

 Z02 Confirmed: Marta Uřová, Ing.,
 Head of Attestation, Releasing and External Inspection VT, Independent authorized agent


TŘINECKÉ ŽELEZÁŘNY, a.s.
 Průmyslová 1000, Staré Město
 739 81 Třinec 131

Z02

 Ostrava-Vítkovice :
 04.08.2014

 tel: 00420/59/580/2180
 fax: 00420/59/580/2184

 Z03 Independent authorized agent

 TŘINECKÉ ŽELEZÁŘNY MORAVIA STEEL		HEAT TREATMENT REPORT Appendix at Inspection certificate 3.1 A 2014/06/000813-JAN	
DIMENSION [inch]:	6.625x0.562	SHOP ORDER No.:	9700226852
HEAT No. :		T12928 T12929 T12951	
MATERIAL SPECIFICATION AND GRADE :		X52 Gr.B Gr.C X42/B	
TYPE OF HEAT TREATMENT :		NORMALIZED	
MINIMUM TEMPERATURE:		1652°F	

Ostrava-Vítkovice: 04.06.2014

tel: 00420/59/560/2160
fax: 00420/59/560/2164



TŘINECKÉ ŽELEZÁŘNY, a.s.
Průmyslové 1000, Staré Město
739 61 Třinec 131

.....
Independent authorized agent

11787-A-1

Sheet : 1/3



A03 Document No.:
A 2014/06/002767-JAN



A01, A05
Manufacturer: TRINECKÉ ŽELEZÁRNY, a.s. /Průmyslová 1000 /Staré Město /739 61 Třinec /Czech Republic
Production mill : VT - VALCOVNA TRUB / Výstavní 1132 / 706 02 Ostrava - Vítkovice / Czech Republic

A07 Purchaser's order No.:		A08 Works order No./ Contract No.:		A06 Consignee:		
011787-A		9700226855 0041299197 / 176				
A10 Advice-Note No.:						
14/06/000218/01 02.06.2014						
A02 Type of inspection document:						
Inspection certificate 3.1, EN 10204:2004						
JUL 1 7 2014						
B01, B09-B11 Product, product dimensions, specification		B06, B13 Quantity	B02.1 Steel designation		B02.2 Product / Dimensional standard	
Seamless Steel Line Pipes Hot Rolled 6.625 in x 0.562 in		46 pcs 1875.96 ft 31910 kgs	X52/PSL1 X42/B/PSL1 Gr.B Gr.C Gr.B Gr.B		API SPEC 5L 45. EDITION API SPEC 5L 45. EDITION ASTM A106/A106M 11/2011 ASTM A106/A106M 11/2011 ASTM A53/A53M 03/2012 ASME SA106/SA106M 07/2011 ASME B36.10 10/2004	
B04 Product delivery condition: normalized						
B03 Supplementary requirements: ASME SA53/SA53M 2010 EDITION/2011 ADDENDA, ASME SA106/SA106M 2010 EDITION/2011 ADDENDA, API MONOGRAM Bevelled ends 30-35°, root facet 1,6mm +0,8mm						
Requirements :						
B07.1 Heat No.	B07.2 Specimen No.	C10 Specimen shape	C11 Yield Strength R _{0.2} psi	C12 Tensile Strength R _m psi	C13 Elongation Z %	C14 Reduction of area Z %
			min 52200	min 70000	min 30	
C02 Specimen direction:		C03 Test temperature(°F):		C15 Test method:		ASTM A370
T15130	28600/P	P	55985	78755	45.0	-
T15131	28569/P	P	58160	79481	43.2	-
* P - Flat specimen K - Round specimen						
Z01 ALL PRODUCTS MEET REQUIREMENTS OF ABOVE MENTIONED STANDARDS AND REQUIREMENTS SPECIFIED IN ORDER THE DECLARATION IS ISSUED UNDER THE SOLE RESPONSIBILITY OF THE SUPPLIER						

Z02 Confirmed: Marta Uhorová, Ing.,
Head of Attestation, Releasing and External inspection VT, independent authorized agent



TRINECKÉ ŽELEZÁRNY, a.s.
Průmyslová 1000, Staré Město
739 61 Třinec 131

Z02

Ostrava-Vítkovice :
12.06.2014

tel.: 0042059/5602160
fax: 0042059/5602164

Z03 independent authorized agent



A01, A05

 Manufacturer: TŘINECKÉ ŽELEZÁŘNY, a.s. /Průmyslová 1000/Staré Město /739 61 Třinec /Czech Republic
 Production mill : VT – VÁLCOVNA TRUB / Výstavni 1132 / 708 02 Ostrava – Vítkovice / Czech Republic

B07.1 Heat No.	B07.2 Specimen No.	C40 Impact test KV ft.lb		C44 Lateral expansion mm		C45 Shear fracture area %											
		C41 0.394in x 0.394in															
C02 Specimen direction: L		C03 Test temperature(°F): -4		C46 Test method: ASTM A370													
		C42 Individual values	C43 Mean value	C44.1 Individual values	C44.2 Mean value	C45.1 Individual values	C45.2 Mean value										
T15130	28600/P	~193 ~212 ~195	~200														
T15131	28569/P	~209 ~215 >221	-														
B07.1 Heat No.	B07.2 Specimen No.	C30 Hardness HBW NACE MR0103-2012 NACE MR0175-2009 max 237															
		C33 Test method: ISO 6506-1															
		C31 Individual values	C32 Mean value														
T15130	28600/P	154 158 157	158														
T15131	28569/P	160 157 157	158														
C70 Steelmaking process: Basic oxygen furnace																	
C71-C82 Heat chemical analysis in %: Ceq max.: 0.43																	
B07.1 Heat No.	C	Mn	Si	P	S	Cu	Ni	Cr	Mo	V	Ti	Al	Nb	B	Ceq		
T15130	0.17	1.18	0.20	0.014	0.005	0.02	0.02	0.18	0.007	0.031	0.001	0.031	0.001	0.0003	0.41		
T15131	0.17	1.15	0.20	0.012	0.004	0.03	0.02	0.20	0.008	0.034	0.001	0.031	0.001	0.0004	0.41		
Product chemical analysis in %: Ceq max.: 0.43																	
B07.1 Heat No.	B07.2 Specimen No.	C	Mn	Si	P	S	Cu	Ni	Cr	Mo	V	Ti	Al	Nb	B	Ceq	
T15130	28600/P	0.18	1.15	0.20	0.013	0.003	0.02	0.02	0.18	0.007	0.032	0.001	0.031	0.001	0.0002	0.42	
T15130	28601/P	0.17	1.15	0.20	0.013	0.003	0.02	0.02	0.18	0.007	0.031	0.001	0.031	0.001	0.0003	0.41	
T15131	28569/P	0.18	1.15	0.20	0.013	0.003	0.02	0.02	0.19	0.007	0.033	0.001	0.029	0.001	0.0003	0.42	
T15131	28570/P	0.18	1.14	0.20	0.012	0.003	0.02	0.02	0.19	0.007	0.034	0.001	0.033	0.001	0.0002	0.42	
C80, D81, D82, D81 Other requirements:																	
Visual and dimensional inspection																-satisfactory	
Flattening test								ASTM A 530								-satisfactory	
Hydrostatic test - test pressure								2970 psi/5s								-satisfactory	

 Z02 Confirmed: Marta Uhorová, Ing.,
 Head of Approval, Releasing and External Inspection VT, Independent authorized agent

TŘINECKÉ ŽELEZÁŘNY, a.s.
 Průmyslová 1000, Staré Město
 739 61 Třinec 131

Z02

 Ostrava-Vitkovice :
 12.08.2014

 tel.: 00420/59/5602160
 fax: 00420/59/5602164

 Z03 Independent authorized agent



A01, A05


Manufacturer: TRINECKÉ ŽELEZÁŘNY, a.s. /Průmyslová 1000 /Staré Město /739 61 Třinec /Czech Republic
Production mill : VT – VALCOVNA TRUB / Výtavní 1132 / 706 02 Ostrava – Vítkovice / Czech Republic

Residual magnetism	API 5L	- satisfactory
<p>B15 Supplementary information: Heat No.: T15130 - 18 pcs, 736.08 ft, 12587 kgs Tube No.: 28614,28624,28617,28623,28600,28616,28618,28620,28599,28602,28603,28621,28630,28622,28632,28631,28610,28619</p> <p>Heat No.: T15131 - 28 pcs, 1130.88 ft, 19323 kgs Tube No.: 28591,28595,28592,28594,28599,28598,28573,28597,28574,28586,28570,28579,28578,28580, 28575,28587,28571,28585,28577,28588,28576,28584,28582,28589,28572,28590,28583,28581</p> <p>The capacity of the Charpy Impact Machine was exceeded at the Impact Test Values (see values marked with ">"). 80 % of capacity of the Charpy Impact Machine was exceeded at the Impact Test Values (see values marked with "~").</p> <p>The tubes are free of mercury contamination and no weld repair was performed.</p> <p>The hardness test values in HBW conform to the request max. 22 HRC (max. 237 HBW).</p> <p>Width of gauge length of the tension test specimen at a room temperature - 1 in.</p> <p>Data mentioned in USC Units were converted from SI Units.</p> <p>Appendix: Heat treatment report.</p>		

Z02 Confirmed: Marta Uehrová, Ing.,
Head of Attestation, Releasing and External Inspection VT, Independent authorized agent**TRINECKÉ ŽELEZÁŘNY, a.s.**
Průmyslová 1000, Staré Město
739 61 Třinec 131

Z02

Ostrava-Vítkovice :
12.06.2014tel.: 0042069/5802180
fax: 0042069/5802184
Z03 Independent authorized agent

 TŘINECKÉ ŽELEZÁŘNY MORAVIA STEEL		HEAT TREATMENT REPORT Appendix at Inspection certificate 3.1 A 2014/06/002767-JAN	
DIMENSION [inch]:	6.625x0.562	SHOP ORDER No.:	9700226855
HEAT No. :		T15130 T15131	
MATERIAL SPECIFICATION AND GRADE :		X52 Gr.B Gr.C X42/B	
TYPE OF HEAT TREATMENT :		NORMALIZED	
MINIMUM TEMPERATURE:		1652°F	

Ostrava-Vítkovice: 12.06.2014

tel: 00420/59/560/2160
fax: 00420/59/560/2164



TŘINECKÉ ŽELEZÁŘNY, a.s.

Průmyslová A000, Staré Město
739 61 Třinec

131

.....
Independent authorized agent



A01, A05

 Manufacturer: TŘINECKÉ ŽELEZÁŘNY, a.s. /Průmyslová 1000 /Staré Město /739 61 Třinec /Czech Republic
 Production mill : VT - VALCOVNA TRUB / Vystavní 1132 / 706 02 Ostrava - Vítkovice / Czech Republic

A07 Purchaser's order No.:		A08 Works order No./ Contract No.:		A06 Consignee:		
011787-A		9700226855 0041299197 / 176				
A10 Advice-Note No.: 14/06/000246/05 02.06.2014						
A02 Type of inspection document: Inspection certificate 3.1, EN 10204:2004						
B01, B09-B11 Product, product dimensions, specification		B06, B13 Quantity	B02.1 Steel designation		B02.2 Product / Dimensional standard	
Seamless Steel Line Pipes Hot Rolled 6.625 in x 0.562 in		16 pcs 643.15 lb 11042 kgs	X52/PSL1 X42/B/PSL1 Gr.B Gr.C Gr.B Gr.B		API SPEC 5L 45. EDITION API SPEC 5L 45. EDITION ASTM A106/A106M 11/2011 ASTM A106/A106M 11/2011 ASTM A53/A53M 03/2012 ASME SA106/SA106M 07/2011 ASME B38.10 10/2004	
B04 Product delivery condition: normalized						
B03 Supplementary requirements: ASME SA53/SA53M 2010 EDITION/2011 ADDENDA, ASME SA106/SA106M 2010 EDITION/2011 ADDENDA, API MONOGRAM Bevelled ends 30-35°, root facet 1,8mm \pm 0,8mm						
Requirements :						
B07.1 Heat No.	B07.2 Specimen No.	C10 [*] Specimen shape	C11 Yield Strength R _{0.2} psi min 52200	C12 Tensile Strength R _m psi min 70000	C13 Elongation Z [*] % min 30	C14 Reduction of area Z [*] %
T15130	26000/P	P	55985	78755	45.0	-
		C02 Specimen direction: L	C03 Test temperature(°F): 70		C15 Test method: ASTM A370	
* P - Flat specimen K - Round specimen						
Z01 ALL PRODUCTS MEET REQUIREMENTS OF ABOVE MENTIONED STANDARDS AND REQUIREMENTS SPECIFIED IN ORDER THE DECLARATION IS ISSUED UNDER THE SOLE RESPONSIBILITY OF THE SUPPLIER						

 Z02 Confirmed. Maria Uhrová, Ing.,
 Head of Assessment, Releasing and External inspection VT, Independent authorized agent

TŘINECKÉ ŽELEZÁŘNY, a.s.
 Průmyslová 1000, Staré Město
 739 61 Třinec 131

Z02

 Ostrava-Vitkovice :
 12.06.2014

 tel: 00420595602160
 fax: 00420595602164

 Z03 Independent authorized agent



A01, A05

 Manufacturer: TŘINECKÉ ŽELEZÁŘNY, a.s. /Průmyslová 1000 /Staré Město /739 61 Třinec /Czech Republic
 Production mill : VT - VALCOVNA TRUB / Výstavni 1132 / 708 02 Ostrava - Vítkovice / Czech Republic

B07.1 Heat No.	B07.2 Specimen No.	C40 Impact test KV ft.lb		C44 Lateral expandit mm		C46 Shear fracture area %											
		C41 0.394in x 0.394in															
C02 Specimen direction: L		C03 Test temperature(°F): -4		C46 Test method: ASTM A370													
C42 Individual values		C43 Mean value		C44.1 Individual values		C44.2 Mean value		C45.1 Individual values		C45.2 Mean value							
T15130	28600/P	-193 -212 ~195		-200													
B07.1 Heat No.	B07.2 Specimen No.	C38 Hardness HBW NACE MR0103-2012,NACE MR0175-2009 max 237															
		C33 Test method: ISO 8506-1															
C31 Individual values		C32 Mean value															
T15130	28600/P	154	156	157	156												
C70 Steelmaking process: Basic oxygen furnace																	
C71-C82 Heat chemical analysis in %: Ceq max.: 0.43																	
B07.1 Heat No.	C	Mn	Si	P	S	Cu	Ni	Cr	Mo	V	Ti	Al	Nb	B	Ceq		
T15130	0.17	1.18	0.20	0.014	0.005	0.02	0.02	0.18	0.007	0.031	0.001	0.031	0.001	0.0003	0.41		
Product chemical analysis in %: Ceq max.: 0.43																	
B07.1 Heat No.	B07.2 Specimen No.	C	Mn	Si	P	S	Cu	Ni	Cr	Mo	V	Ti	Al	Nb	B	Ceq	
T15130	28600/P	0.18	1.15	0.20	0.013	0.003	0.02	0.02	0.18	0.007	0.032	0.001	0.031	0.001	0.0002	0.42	
T15130	28601/P	0.17	1.15	0.20	0.013	0.003	0.02	0.02	0.18	0.007	0.031	0.001	0.031	0.001	0.0003	0.41	
C80, D01, D02, D01 Other requirements:																	
Visual and dimensional inspection												- satisfactory					
Fitting test										ASTM A 530		- satisfactory					
Hydrostatic test - test pressure										2970 psi/5s		- satisfactory					
Residual magnetism										API 5L		- satisfactory					
B15 Supplementary information: Heat No.: T15130 - 16 pcs, 643.15 ft, 11042 kgs Tube No.: 28611,28615,28604,28627,28601,28629,28612,28619,28605,28628,28606,28609,28625,28626,28607,28608																	

 Z02 Confirmed: Merta Urvová, Ing.,
 Head of Attestation, Releasing and External inspection VT, independent authorized agent

TŘINECKÉ ŽELEZÁŘNY, a.s.
 Průmyslová 1000, Staré Město
 739 61 Třinec 131

Z02:

 Ostrava-Vitkovice :
 12.08.2014

 tel.: 00420/59/560/2180
 fax: 00420/59/560/2184

 Z03 Independent authorized agent



A01, A05

Manufacturer: TŘINECKÉ ŽELEZÁŘNY a.s. /Průmyslová 1000 /Staré Město /739 61 Třinec /Czech Republic
Production mill : VT – VALCOVNA TRUB / Výstavni 1132 / 706 02 Ostrava – Vítkovice / Czech Republic

80 % of capacity of the Charpy Impact Machine was exceeded at the Impact Test Values (see values marked with " - ").

The tubes are free of mercury contamination and no weld repair was performed.

The hardness test values in HBW conform to the request max. 22 HRC (max. 237 HBW).

Width of gauge length of the tension test specimen at a room temperature - 1 in.

Data mentioned in USC Units were converted from SI Units.

Appendix: Heat treatment report.

Z02 Confirmed: Mária Uňová, Ing.,
Head of Attestation, Receiving and External Inspection VT, independent authorized agent

Z03


Ostrava-Vítkovice :
12.06.2014

tel.: 00420/58/580/2160
fax: 00420/58/580/2184



TŘINECKÉ ŽELEZÁŘNY, a.s.
Průmyslová 1000, Staré Město
739 61 Třinec 131


Z03 independent authorized agent

 TŘINECKÉ ŽELEZÁŘNY MORAVIA STEEL		HEAT TREATMENT REPORT Appendix at Inspection certificate 3.1 A 2014/06/000865-JAN	
DIMENSION [inch]:	6.625x0.562	SHOP ORDER No.:	9700226855
HEAT No. :	T15130		
MATERIAL SPECIFICATION AND GRADE :	X52 Gr.B Gr.C X42/B		
TYPE OF HEAT TREATMENT :	NORMALIZED		
MINIMUM TEMPERATURE:		1652°F	

Ostrava-Vitkovice: 12.06.2014

tel: 00420/59/560/2160
fax: 00420/59/560/2164



TŘINECKÉ ŽELEZÁŘNY, a.s.
Průmyslová 1000, Staré Město
779 01 Třinec 131

.....
Independent authorized agent