



TIANJIN PIPE CORPORATION

No.396 JINTANG ROAD,DONGLI DISTRICT
T, TIANJIN, P. R. CHINA
http://www.tpci.cn/

INSPECTION CERTIFICATE



NO.:THM2311240041001

FM-11-8.6-40-4

NON-DESTRUCTIVE TEST											
LOC.	ITEM	STANDARD	TYPE	LEVEL/REFERENCE				LEVEL	CVR	FREQ.	RESULT
				L-ID	L-OD	T-ID	T-OD				
FULL LENGTH	DEFECT	ISO 10893-3	EMI	F2,N,5%	F2,N,5%	F2,N,5%	F2,N,5%		100%	100%	PASSED
PIPE	DEFECT	ISO 10893-10	UT	U2/C,N,5%	U2/C,N,5%	U2/C,N,5%	U2/C,N,5%		100%	100%	PASSED
END	DEFECT	ISO 10893-10	UT	U2/C,N,5%	U2/C,N,5%	U2/C,N,5%	U2/C,N,5%		100%	100%	PASSED
PIPE	LAMINAR	ISO 10893-8	UT					/	100%	100%	PASSED
BEVEL	BEVEL	ISO 10893-5	MT					/	100%	100%	PASSED
END	THK.TESTING	/	UT					-12.5%t~+ 15.0%t		100%	PASSED
END	LAMINAR	ISO 10893-8	UT					/	100%	100%	PASSED
PIPE	THK.TESTING	ISO 10893-12	UT					-12.5%t~+ 15.0%t	100%	100%	PASSED

PROCESS INSPECTION OR TEST			
ITEM	INSPECTION DESCRIPTION	RESULT	REMARKS
VISUAL		PASSED	
DIMENSIONS		PASSED	
FLATTENING	FIRST FLATTENING,CLOSE FLATTENING	PASSED	
HIC		PASSED	
HYDROSTATIC	15.8MPa/2290.0PSI,10.00s	PASSED	
BEVEL	30°(0°~+5°),1.6±0.8mm	PASSED	Reviewed by along
RESIDUAL MAGNETISM		PASSED	SP# 80009669
RADIOACTIVITY		PASSED	2023.12.17

REMARKS	EN10204 3.1 EN10204 Type 3.1 Certificate. Radiation level less than 100 beckerels/gram or 0.5 μSV/hr. Residual magnetism far less than 30 Gauss. 9COM No. 6000000013. Ultra-high-power EAF for Steel Melting. Steel is fully killed and fine grain practice Comply to 01-SAMSS-035(19 Aug 2021), Form 175-010700(12 Jul 2017), NACE MR0175/ISO 15156-2015, ASME B36.10 M-2018. item No 60 PURCHASER:ALOTHMAN INDUSTRIAL MARKETING CO (IMCO)	SEAL FOR CERTIFICATION 李天露
DECLARE	WE HEREBY STATE THAT ALL PIPES ARE MANUFACTURED,SAMPLED,TESTED AND INSPECTED IN ACCORDANCE WITH ALL ABOVE STANDARDS, AND HAS BEEN FOUND TO MEET THE REQUIREMENTS.	

PAGE	2/2	DATE	2023-12-14	CERTIFICATE MAKING	温秀博	PRINTING	李天露
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SAH.
080 TUR-R
28/11/24

IMCO Certified True Copy
Signature: [Signature]

FAHSS for PRC
[Signature]
28/11/24.



Date: Dec 17th, 2023

Al Othman Industrial Marketing Co.

LETTER OF AUTHENTICATION

This to certify that the pipes supplied by TIANJIN PIPE CORPORATION , CHINA to Al Othman Industrial Marketing Co.against their purchase order number & Test Certificate number is Authentic. The materials with following information are full compliance with 01-SAMSS-035

PO NO.	ITEM NO.	HEAT NO.	SIZE(MM)	MTC NO.
PO08162	008	031583	88.9x5.49	THM2312070004001
PO08162	009	133011	88.9x7.62	THM2311300003001
PO08162	059	132703	219.1x8.18	THM2311220032001
PO08162	059	132704	219.1x8.18	THM2311220032001
PO08162	059	236990	219.1x8.18	THM2311220032001
PO08162	060	132885	273.1x9.27	THM2311220029001
PO08162	060	132886	273.1x9.27	THM2311220029001
PO08162	060	031539	273.1x9.27	THM2311240041001
PO08162	060	132885	273.1x9.27	THM2311240041001
PO08162	060	736630	273.1x9.27	THM2312140016001

*Reviewed by Zhang
SAP# 80009669*

天津钢管国际经济贸易有限公司
TIANJIN PIPE INTERNATIONAL
ECONOMIC & TRADING CORPORATION

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02

*SAP# 080 TUV-R
28/11/24*



*FAMS for PRC
[Signature]
28/11/24*

TEST CERTIFICATE

Al Othman Industrial Marketing Co
 Al Khobar
 31942
 AL KHOBAR
 Saudi Arabia

Report Number S 923616 : Issue 2
 Page 1 of 1
 Order Number PO No. PO012425
 Date Tested 10/12/24
 Date Reported 16/12/24

Attn: Mr. Sayed Mubeen
 Item - 10"NPS x SCH STD SMLS Pipe
 Identity: Heat No. 132885
 Material Grade: ASTM A106 Gr.B
 Manufacturer: TPCO ; PO Line Item No: 01
 MTC No: THM2311240041001
 Client Name: L&T Heavy Engineering
 Project Name: ECR/HOFCC Debottlenecking Project Petro Rabigh
 Specification - Client Requirement

Tensile Test - ASTM A370 -24							
	Thickness x Width [mm]	Area [mm ²]	GL [mm]	YS [N/mm ²]	UTS [N/mm ²]	%E1	Comments
001: Transverse Parent	9.68 x 38.04	368.23	50.80	320	462	44.0	Result: Acceptable

Certificate Comments

"Conformity statement reported with no decision rule applied"
 Revision to test certificate reference S923616 Issue 1

Item Description: Provided by the client
 Certificate Reviewed by

----- End of Text -----



Tested by Element Saudi Arabia Co. Ltd.

Mohammad Salem
 Department Manager
 For and on authority of
 Element Saudi Arabia Co. Ltd.

Witnessed by
 Client Representative

LAKU MARIADOS
17/12/24
DBO TUV-12

FAHSS QU-H
16.12.2024

TEST CERTIFICATE

Al Othman Industrial Marketing Co
 Al Khobar
 31942
 AL KHOBAR
 Saudi Arabia

Report Number S 923617 : Issue 2
 Page 1 of 1
 Order Number PO No. PO012425
 Date Tested 10/12/24
 Date Reported 16/12/24

Attn: Mr. Sayed Mubeen

Item - 10"NPS x SCH STD SMLS Pipe
 Identity: Heat No. 031539
 Material Grade: ASTM A106 Gr.B
 Manufacturer: TPCO ; PO Line Item No: 01
 MTC No: THM2311240041001
 Client Name: L&T Heavy Engineering
 Project Name: ECR/HOFCC Debottlenecking Project Petro Rabigh

Specification - Client Requirement

Tensile Test - ASTM A370 -24							
	Thickness x Width [mm]	Area [mm ²]	GL [mm]	YS [N/mm ²]	UTS [N/mm ²]	%E1	Comments
001: Transverse Parent	9.50 x 38.03	361.29	50.80	311	468	41.5	Result: Acceptable

Certificate Comments

"Conformity statement reported with no decision rule applied"
 Revision to test certificate reference S923617 Issue 1

Item Description: Provided by the client
 Certificate Reviewed by

----- End of Text -----



Tested by Element Saudi Arabia Co. Ltd.

Mohammad Salem
 Department Manager
 For and on authority of
 Element Saudi Arabia Co. Ltd.

Witnessed by
 Client Representative

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17/12/2024
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TEST CERTIFICATE

Al Othman Industrial Marketing Co
 Al Khobar
 31942
 AL KHOBAR
 Saudi Arabia

Report Number S 923660 : Issue 1
 Page 1 of 1
 Order Number PO No. PO012425
 Date Tested 16/12/24
 Date Reported 17/12/24

Attn: Mr. Sayed Mubeen

Item - 10"NPS x SCH STD SMLS Pipe
 Identity: Heat No. 132885
 Material Grade: ASTM A106 Gr.B
 Manufacturer: TPCO ; PO Line Item No: 01
 MTC No: THM2311240041001
 Client Name: L&T Heavy Engineering
 Project Name: ECR/HOFCC Debottlenecking Project Petro Rabigh

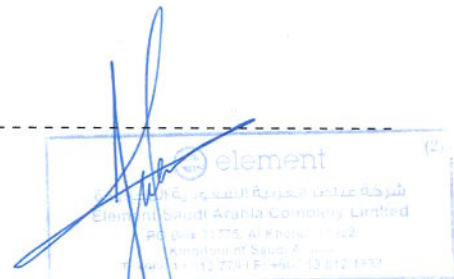
Specification - Client Requirement

Chemical Analysis - OES													
	C [%]	Si [%]	Mn [%]	P [%]	S [%]	Cr [%]	Mo [%]	Ni [%]	B [%]	Cu [%]	Nb [%]	Comments	
001:	0.12	0.22	1.14	0.009	0.003	0.12	<0.01	0.03	<0.0005	0.03	<0.01	See Below	
	V [%]											Comments	
001:	<0.01											See Below	
Item 001: Acceptable as per client requirement													

Certificate Comments

Item Description: Provided by the client
 Certificate Reviewed by ----- End of Text -----

Tested by Element Saudi Arabia Co. Ltd.



Mohammad Salem
 Department Manager
 For and on authority of
 Element Saudi Arabia Co. Ltd.

Handwritten signature and date:
 17.12.2024

Handwritten signature and date:
 12/12/2024
 oboTUV-R

TEST CERTIFICATE

Al Othman Industrial Marketing Co
 Al Khobar
 31942
 AL KHOBAR
 Saudi Arabia

Report Number S 923661 : Issue 1
 Page 1 of 1
 Order Number PO No. PO012425
 Date Tested 16/12/24
 Date Reported 17/12/24

Attn: Mr. Sayed Mubeen

Item - 10"NPS x SCH STD SMLS Pipe
 Identity: Heat No. 031539
 Material Grade: ASTM A106 Gr.B
 Manufacturer: TPCO ; PO Line Item No: 01
 MTC No: THM2311240041001
 Client Name: L&T Heavy Engineering
 Project Name: ECR/HOFCC Debottlenecking Project Petro Rabigh

Specification - Client Requirement

Chemical Analysis - DES													Comments
	C [%]	Si [%]	Mn [%]	P [%]	S [%]	Cr [%]	Mo [%]	Ni [%]	B [%]	Cu [%]	Nb [%]		
001:	0.11	0.22	1.13	0.010	0.003	0.13	<0.01	0.03	<0.0005	0.03	<0.01	See Below	
	V [%]											Comments	
001:	<0.01											See Below	
Item 001: Acceptable as per client requirement													

Certificate Comments

Item Description: Provided by the client
 Certificate Reviewed by

----- End of Text -----



Tested by Element Saudi Arabia Co. Ltd.

.....
Mohammad Salem
 Department Manager
 For and on authority of
 Element Saudi Arabia Co. Ltd.

(Handwritten signature)
 FAHSS TUV-N
 17.12.2024

(Handwritten signature)
 17/12/2024
 obo TUV - R



TIANJIN PIPE CORPORATION

INSPECTION CERTIFICATE

396# JINTANG ROAD TIANJIN, P.R.CHINA
http://www.tpcocn/



NO.:THM2210310010001

FM-11-8.6-40-4

NON-DESTRUCTIVE TEST

LOC.	ITEM	STANDARD	TYPE	LEVEL/REFERENCE				LEVEL	CVR	FREQ.	RESULT
				L-ID	L-OD	T-ID	T-OD				
FULL LENGTH	DEFECT	ISO 10893-3	EM	F2;N,5%	F2;N,5%	F2;N,5%	F2;N,5%		100%	100%	PASSED
PIPE	DEFECT	ISO 10893-10	UT	U2/C;N,5%	U2/C;N,5%	U2/C;N,5%	U2/C;N,5%		100%	100%	PASSED
END	DEFECT	ISO 10893-10	UT	U2/C;N,5%	U2/C;N,5%	U2/C;N,5%	U2/C;N,5%		100%	100%	PASSED
PIPE	LAMINAR	ISO 10893-8	UT					/	100%	100%	PASSED
BEVEL	BEVEL	ISO 10893-5	MT					/	100%	100%	PASSED
END	THK.TESTING	ISO 10893-12	UT					-12.5%~+15.0%	25%	100%	PASSED
END	LAMINAR	ISO 10893-8	UT					/	100%	100%	PASSED
PIPE	THK.TESTING	ISO 10893-12	UT					-12.5%~+15.0%	100%	100%	PASSED

PROCESS INSPECTION OR TEST

ITEM	INSPECTION DESCRIPTION	RESULT	REMARKS
VISUAL		PASSED	
DIMENSIONS		PASSED	
FLATTENING	FIRST FLATTENING,CLOSE FLATTENING	PASSED	
HIC		PASSED	
HYDROSTATIC	12.5MPa/1810.0PSI,10.00s	PASSED	
BEVEL	30°(0°~+5°),1.6±0.8mm	PASSED	
RESIDUAL MAGNETISM		PASSED	
RADIOACTIVITY		PASSED	

REMARKS	EN10204 Type 3.1 Certificate. Radiation level of pipes less than 100 Becquerels/gram. IMCO P.0 # 00416 and item number 016. Residual magnetism of pipes far less than 30GS. Ultra-high-power EAF for Steel Melting. Steel is fully killed and fine grain practice and NACE MR 0175.	SEAL FOR CERTIFICATION
DECLARE	WE HEREBY STATE THAT ALL PIPES ARE MANUFACTURED,SAMPLED,TESTED AND INSPECTED IN ACCORDANCE WITH ALL ABOVE STANDARDS, AND HAS BEEN FOUND TO MEET THE REQUIREMENTS.	

PAGE 2/2	DATE 2023-07-06	CERTIFICATE MAKING
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FAHS for gpc
28/11/24

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OBO TUV-R
28/11/24



天津钢管国际经济贸易有限公司
TIANJIN PIPE INTERNATIONAL ECONOMIC & TRADING CORPORATION

Date: OCT 31th, 2022

Al Othman Industrial Marketing Co.

LETTER OF AUTHENTICATION

This to certify that the pipes supplied by TIANJIN PIPE CORPORATION , CHINA to Al Othman Industrial Marketing Co.against their purchase order number & Test Certificate number is Authentic. And the materials with following information are full compliance with 01-SAMSS-035

PO NO.	ITEM NO.	HEAT NO.	SIZE(MM)	MTC NO.
PO06416	3	525226	114.30x6.02	THM2210310004001
PO06416	4	525225	114.30x8.56	THM2210310005001
PO06416	5	021635	168.30x7.11	THM2210310006001
PO06416	5	123429	168.30x7.11	THM2210310006001
PO06416	6	021636	168.30x10.97	THM2210310007001
PO06416	9	021543	273.00x9.27	THM2210310008001
PO06416	13	525774	323.80x17.48	THM2210310009001
PO06416	16	025800	355.60x9.53	THM2210310010001
PO06416	16	026119	355.60x9.53	THM2210310010001
PO06416	24	026081	457.00x12.70	THM2210310016001
PO06416	29	026686	88.90x5.49	THM2210310011001
PO06416	29	525224	88.90x5.49	THM2210310011001
PO06416	30	026433	88.90x7.62	THM2210310013001
PO06416	31	026434	114.30x6.02	THM2210310014001
PO06416	32	123430	168.30x7.11	THM2210310015001

天津钢管国际经济贸易有限公司

TIANJIN PIPE INTERNATIONAL

地址: 中国天津东丽区津塘公路396号

Add.: No.396, Jintang Road, Dongli District, Tianjin, China

网址 (Website): www.tpcointernational.com

电话 (Tel): 86-22-24800958 66280988

传真 (Fax): 86-22-66282951

邮箱 (E-mail): tpcointl@tpcointl.cn

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Faxes for PRC
28/11/2022

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28/11/2022



TEST CERTIFICATE

Al Othman Industrial Marketing Co
 Al Khobar
 31942
 AL KHOBAR
 Saudi Arabia

Report Number S 923621 : Issue 2
 Page 1 of 1
 Order Number PO No. PO012425
 Date Tested 10/12/24
 Date Reported 16/12/24

Attn: Mr. Sayed Mubeen
 Item - 14"NPS x SCH 30/STD SMLS Pipe
 Identity: Heat No. 025800
 Material Grade: ASTM A106 Gr.B
 Manufacturer: TPCO ; PO Line Item No: 02
 MTC No: THM2210310010001
 Client Name: L&T Heavy Engineering
 Project Name: ECR/HOFCC Debottlenecking Project Petro Rabigh
 Specification - Client Requirement

Tensile Test - ASTM A370 -24							
	Thickness x Width [mm]	Area [mm ²]	GL [mm]	YS [N/mm ²]	UTS [N/mm ²]	%E1	Comments
001:Transverse Parent	9.69 x 38.05	368.70	50.80	311	478	42.5	Result: Acceptable

Certificate Comments

"Conformity statement reported with no decision rule applied"
 Revision to test certificate reference S923621 Issue 1
 Item Description: Provided by the client
 Certificate Reviewed by
 ----- End of Text -----



Tested by Element Saudi Arabia Co. Ltd.

Mohammad Salem
 Department Manager
 For and on authority of
 Element Saudi Arabia Co. Ltd.

Witnessed by
 Client Representative

Handwritten signature and date:
 17/12/2024
 Obv TUV-R

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 FAHSS RUM

TEST CERTIFICATE

Al Othman Industrial Marketing Co
 Al Khobar
 31942
 AL KHOBAR
 Saudi Arabia

Report Number S 923665 : Issue 1
 Page 1 of 1
 Order Number PO No. PO012425
 Date Tested 16/12/24
 Date Reported 17/12/24

Attn: Mr. Sayed Mubeen
 Item - 14"NPS x SCH 30/STD SMLS Pipe
 Identity: Heat No. 025800
 Material Grade: ASTM A106 Gr.B
 Manufacturer: TPCO ; PO Line Item No: 02
 MTC No: THM2210310010001
 Client Name: L&T Heavy Engineering
 Project Name: ECR/HOFCC Debottlenecking Project Petro Rabigh

Specification - Client Requirement

Chemical Analysis - OES													Comments
	C [%]	Si [%]	Mn [%]	P [%]	S [%]	Cr [%]	Mo [%]	Ni [%]	B [%]	Cu [%]	Nb [%]		
001:	0.12	0.25	1.08	0.009	<0.002	0.09	0.02	0.03	<0.0005	0.06	<0.01	See Below	
	V [%]											Comments	
001:	0.03											See Below	

Item 001: Acceptable as per client requirement

Certificate Comments

Item Description: Provided by the client
 Certificate Reviewed by ----- End of Text -----

Tested by Element Saudi Arabia Co. Ltd.

[Handwritten Signature]
 FAHBS TUV-R

[Handwritten Signature]
 12/12/2024
 obo TUV-R



element (2)
 شركة عناصر العربية السعودية المحدودة
 Element Saudi Arabia Company Limited
 PO Box 31775, Al Khobar 31952
 Kingdom of Saudi Arabia
 T: +966 13 812 779 | F: +966 13 812 1837

Mohammad Salem
 Department Manager
 For and on authority of
 Element Saudi Arabia Co. Ltd.



TIANJIN PIPE CORPORATION

INSPECTION CERTIFICATE



396# JINTANG ROAD TIANJIN, P.R.CHINA
http://www.tpcocn.com

NO.:THM2208080024001

FM-11-8.6-40-4

PIPE	LAMINAR	ISO 10893-8	UT				/	100%	100%	PASSED
BEVEL	BEVEL	ISO 10893-5	MT				/	100%	100%	PASSED
END	THK.TESTING	ISO 10893-12	UT				-12.5%~-+ 15.0%t	25%	100%	PASSED
END	LAMINAR	ISO 10893-8	UT				/	100%	100%	PASSED
PIPE	THK.TESTING	ISO 10893-12	UT				-12.5%~-+ 15.0%t	100%	100%	PASSED

PROCESS INSPECTION OR TEST			
ITEM	INSPECTION DESCRIPTION	RESULT	REMARKS
VISUAL		PASSED	
DIMENSIONS		PASSED	
FLATTENING	FIRST FLATTENING,CLOSE FLATTENING	PASSED	
HIC		PASSED	SEE ATTACHMENTS
HYDROSTATIC	10.9MPa/1580.0PSI,10.00s	PASSED	
BEVEL	30°(0°~+5°),1.6±0.8mm	PASSED	
RESIDUAL MAGNETISM		PASSED	
RADIOACTIVITY		PASSED	

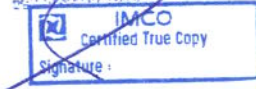
REMARKS	EN10204 Type 3.1 Certificate. Radiation level of pipes less than 100 Becquerels/gram. IMCO P.O # 06416 and item number 018.	SEAL FOR CERTIFICATION
DECLARE	WE HEREBY STATE THAT ALL PIPES ARE MANUFACTURED,SAMPLED,TESTED AND INSPECTED IN ACCORDANCE WITH ALL ABOVE STANDARDS, AND HAS BEEN FOUND TO MEET THE REQUIREMENTS.	

PAGE	2/2	DATE	2022-08-08	CERTIFICATE MAKING	孙静
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Alid
28/11/22



天津钢管国际经济贸易有限公司

TIANJIN PIPE INTERNATIONAL ECONOMIC & TRADING CORPORATION

Date: AUGUST 8th, 2022

Al Othman Industrial Marketing Co.

LETTER OF AUTHENTICATION

This to certify that the pipes supplied by TIANJIN PIPE CORPORATION , CHINA to Al Othman Industrial Marketing Co.against their purchase order number & Test Certificate number is Authentic. And the materials with following information are full compliance with 01-SAMSS-035

PO NO.	ITEM NO.	HEAT NO.	SIZE(MM)	MTC NO.
PO06416	7	123364	219.10x8.18	THM2208080016001
PO06416	7	021591	219.10x8.18	THM2208080016001
PO06416	7	123365	219.10x8.18	THM2208080016001
PO06416	8	021592	219.10x12.70	THM2208080017001
PO06416	8	021328	219.10x12.70	THM2208080017001
PO06416	10	021376	273.00x15.09	THM2208080018001
PO06416	11	123275	273.00x12.70	THM2208080019001
PO06416	12	026118	323.80x10.31	THM2208080020001
PO06416	12	524429	323.80x10.31	THM2208080020001
PO06416	14	524430	323.80x12.70	THM2208080021001
PO06416	15	026120	323.80x9.53	THM2208080022001
PO06416	15	524431	323.80x9.53	THM2208080022001
PO06416	15	524432	323.80x9.53	THM2208080022001
PO06416	15	524433	323.80x9.53	THM2208080022001
PO06416	17	524359	406.40x12.70	THM2208080023001
PO06416	18	524361	406.40x9.53	THM2208080024001

天津钢管国际经济贸易有限公司
TIANJIN PIPE INTERNATIONAL ECONOMIC & TRADING CORPORATION

Handwritten signature

08

地址：中国天津东丽区津塘公路396号
Add.: No.396, Jintang Road, Dongli District, Tianjin, China
网址 (Website) : www.tpcointernational.com

电话 (Tel) : 86-22-24800958 66280988
传真 (Fax) : 86-22-66282951
邮箱 (E-mail) : tpcointl@tpcointl.cn

Handwritten notes:
FAXES for PRC
[Signature]
28/11/2024

Handwritten notes:
080 TUV-R
28/11/2024



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TEST CERTIFICATE

Al Othman Industrial Marketing Co
 Al Khobar
 31942
 AL KHOBAR
 Saudi Arabia

Report Number S 923618 : Issue 2
 Page 1 of 1
 Order Number PO No. PO012425
 Date Tested 10/12/24
 Date Reported 16/12/24

Attn: Mr. Sayed Mubeen
 Item - 16"NPS x SCH 30/STD SMLS Pipe
 Identity: Heat No. 524361
 Material Grade: ASTM A106 Gr.B
 Manufacturer: TPCO ; PO Line Item No: 03
 MTC No: THM2208080024001
 Client Name: L&T Heavy Engineering
 Project Name: ECR/HOFCC Debottlenecking Project Petro Rabigh
 Specification - Client Requirement

Tensile Test - ASTM A370 -24							
	Thickness x Width [mm]	Area [mm ²]	GL [mm]	YS [N/mm ²]	UTS [N/mm ²]	%E1	Comments
001: Transverse Parent	9.54 x 38.04	362.90	50.80	301	460	44.0	Result: Acceptable

Certificate Comments

"Conformity statement reported with no decision rule applied"
 Revision to test certificate reference S923618 Issue 1
 Item Description: Provided by the client
 Certificate Reviewed by
 ----- End of Text -----



Tested by Element Saudi Arabia Co. Ltd.

.....
Mohammad Salem
 Department Manager
 For and on authority of
 Element Saudi Arabia Co. Ltd.

Witnessed by
 Client Representative

Handwritten signature and date:
 12/12/24
 Othman - R

Handwritten signature and initials:
 FAHSS TUV M

TEST CERTIFICATE

Al Othman Industrial Marketing Co
 Al Khobar
 31942
 AL KHOBAR
 Saudi Arabia

Report Number S 923662 : Issue 1
 Page 1 of 1
 Order Number PO No. PO012425
 Date Tested 16/12/24
 Date Reported 17/12/24

Attn: Mr. Sayed Mubeen

Item - 16"NPS x SCH 30/STD SMLS Pipe
 Identity: Heat No. 524361
 Material Grade: ASTM A106 Gr.B
 Manufacturer: TPCO ; PO Line Item No: 03
 MTC No: THM2208080024001
 Client Name: L&T Heavy Engineering
 Project Name: ECR/HOFCC Debottlenecking Project Petro Rabigh

Specification - Client Requirement

Chemical Analysis - OES

	C [%]	Si [%]	Mn [%]	P [%]	S [%]	Cr [%]	Mo [%]	Ni [%]	B [%]	Cu [%]	Nb [%]	Comments
001:	0.11	0.26	1.16	0.016	<0.002	0.12	0.03	0.03	<0.0005	0.06	<0.01	See Below
	V [%]											Comments
001:	<0.01											See Below

Item 001: Acceptable as per client requirement

Certificate Comments

Item Description: Provided by the client
 Certificate Reviewed by

----- End of Text -----

Tested by Element Saudi Arabia Co. Ltd.



Mohammad Salem
 Department Manager
 For and on authority of
 Element Saudi Arabia Co. Ltd.

(Signature)
 FAHSS DUU-N

LAKU MARRADON
17/12/2024
060 700-R



TIANJIN PIPE CORPORATION

396# JINTANG ROAD TIANJIN, P.R.CHINA
http://www.tpcocn/

INSPECTION CERTIFICATE

IMCO
QA/QC DEPARTMENT
P.O. NO. : 5041250 PRC ECR
ITEM NO. : 04
QUANTITY : 33 Pcs
Client Name : L. UNIT



NO.: THM2212130036001

FM-11-8.6-40-4

PURCHASER	Al Othman Industrial Marketing Co. Ltd (IMCO)	CONTRACT NO.	EXMKQ-220205E/026	P.O.NO.	PO 06416
CUSTOMER	SAUDI ARAMCO	PORT OF DEST.		ITEM NO.	
SPECIFICATION	API Spec 5L 46th, 01-SAMSS-035 (2021.8.19), ASTM A106/A106M-2019a, ASTM A53/A53M-2020, ASME SA-106/SA-106M-2021, ASME SA-53/SA-53M-2021 PSL2, BNS/Gr.B, BE	MAKING METH.	HOT ROLLING SMLS	L/C NO.	
		SIZE	60.30x5.54 2.375 0.218	RANGE LEN.	6.0-6.1m
		PRODUCT	SEAMLESS STEEL LINE PIPE		

NO.	HEAT NO.	LOT NO.	BATCH. NO.	PIECES	WEIGHT(t)	LENGTHS	BUNDLES	L.RANGE	*1	*2	*3	*4
1	525794	48005	C0482022080041-A	194	8.698	1180.500 m		6.00-6.10m	N		/	880°C×15min N (A)
2	525794	48006	C0482022080041-A	200	8.957	1215.805 m		6.00-6.10m	N		/	
3	525794	48007	C0482022080041-A	195	8.756	1185.193 m		6.00-6.10m	N		/	
4	525794	48008	C0482022080041-A	197	8.830	1196.181 m		6.00-6.10m	N		/	
5	525794	48009	C0482022080041-A	195	8.755	1186.691 m		6.00-6.10m	N		/	
6	525794	48010	C0482022080041-A	200	8.965	1216.432 m		6.00-6.10m	N		/	
7	525794	48011	C0482022080041-A	98	4.396	595.985 m		6.00-6.10m	N		/	
TOTAL				1279	57.357	7778.787 m						

REMARKS	
NOTES	*1: DELIVERY CONDITION/HEAT TREATMENT STYLE (R:AS-ROLLLED, N:NORMALIZED, N&T:NORMALIZED AND TEMPERED, Q:QUENCHED AND TEMPERED); *2: THE MINIMUM TEMPERING TEMPERATURE °C; *3: NAME AND LOCATION OF FACILITIES USED FOR STEELMAKING/PIPE MANUFACTURING/PROCESSING/PIPE END MACHINING; *4: HEAT TREATMENT (Q(W): QUENCHING (WATER), Q(O): QUENCHING (OIL), N(A): NORMALIZATION (AIR COOLING), T(A): TEMPER (AIR COOLING))

CHEMICAL COMPOSITION (%)

NO.	HEAT NO.	*10	C	Si	Mn	P	S	Ni	Cr	Mo	Cu	Al	N	B	Ca	Nb	V	Ti	C031	C032	C037	C039	C052	INTL-125			
																								x	2	2	3
		MAX	14	40	120	20	4	30	30	15	35	50	12	5	60	5	8	4	22		6	15	100				
		MIN	10	29																200							
1	525794	H	10	25	119	14	2	3	12	2	3	20	5.2	4	9	0.1	1	0.1	18	385	1	1	21				
2	525794	P	10	26	119	13	1	1	12	2	3	20	5.1	<5	10	<1	<1	<1	18	390	2	3	19				
3	525794	P	9	25	120	12	1	1	12	2	3	21	4.2	<5	10	<1	<1	<1	17	500	2	3	19				

NOTES	H: HEAT ANALYSIS, P: PRODUCT ANALYSIS C031=C+S/30+Mn/20+Cu/20+Ni/60+Cr/20+Mo/15+V/10+5*B, C032=Al/N, C037=Nb+V, C039=V+Nb+Ti, C052=Cr+Cu+Mo+N+V
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TENSILE TEST

NO.	HEAT NO.	LOT NO.	SPECIMEN	*1	*2	*3	TYPE	Y.S.		T.S.	EL.	R.A.	Y/T	*4	*5
								Rp 0.2 MPa	Rt0.5 MPa						
1	525794	48005	D220801115A	P	B	25	L,strip,bo=19.0mm Lo=50mm		335	455	39		0.74		
2	525794	48006	D220801116B	P	B	25	L,strip,bo=19.0mm Lo=50mm		320	445	40		0.72		
3	525794	48007	D220801117A	P	B	25	L,strip,bo=19.0mm Lo=50mm		325	455	40		0.71		
4	525794	48008	D220801118B	P	B	25	L,strip,bo=19.0mm Lo=50mm		315	450	40		0.70		
5	525794	48009	D220801119A	P	B	25	L,strip,bo=19.0mm Lo=50mm		325	450	38		0.72		
6	525794	48010	D220801120B	P	B	25	L,strip,bo=19.0mm Lo=50mm		305	440	40		0.69		
7	525794	48011	D220801121A	P	B	25	L,strip,bo=19.0mm Lo=50mm		310	455	38		0.68		

NOTES	*1: TEST TYPE (P: PRODUCT TEST, S: SAMPLE TEST); *2: LOCATION (B: PIPE BODY, U: UPSETTING END); *3: TEMPERATURE °C; *4: PERCENTAGE PLASTIC EXTENSION AT MAXIMUM FORCE; *5: PERCENTAGE TOTAL EXTENSION AT MAXIMUM FORCE
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IMPACT TEST

NO.	HEAT NO.	LOT NO.	SPECIMEN	*1	*2	*3	TYPE	ABSORB ENERGY (J)				SHEAR AREA (%)				LE (mm)									
								1	2	3	AVG	*4	1	2	3	AVG	1	2	3	AVG					
								1	525794	48005	D220801115A	P	B	0	L, V8, 10mm×3.3mm	64	72	68	68		100	100	100	100	
2	525794	48006	D220801116B	P	B	0	L, V8, 10mm×3.3mm	65	67	71	68		100	100	100	100									
3	525794	48007	D220801117A	P	B	0	L, V8, 10mm×3.3mm	63	72	70	68		100	100	100	100									
4	525794	48008	D220801118B	P	B	0	L, V8, 10mm×3.3mm	66	69	67	68		100	100	100	100									
5	525794	48009	D220801119A	P	B	0	L, V8, 10mm×3.3mm	68	67	71	69		100	100	100	100									
6	525794	48010	D220801120B	P	B	0	L, V8, 10mm×3.3mm	65	70	69	68		100	100	100	100									
7	525794	48011	D220801121A	P	B	0	L, V8, 10mm×3.3mm	70	70	70	70		100	100	100	100									

NOTES	*1: TEST TYPE (P: PRODUCT TEST, S: SAMPLE TEST); *2: LOCATION (B: PIPE BODY, U: UPSETTING END); *3: TEMPERATURE °C; *4: STATISTICAL IMPACT ABSORB ENERGY (J) ≥ 14.0, 7.0 ≤ NOT MORE THAN ONE IMPACT SPECIMEN ABSORBED ENERGY < 14.0
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PAGE	1/2	DATE	2023-07-06	CERTIFICATE MAKING	张璐
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FAHS for PRC
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SAT
obo Tur-K
28/11/2024
(R)



TIANJIN PIPE CORPORATION

INSPECTION CERTIFICATE

396# JINTANG ROAD TIANJIN, P.R.CHINA
http://www.tpcocn



NO.:THM2212130036001

FM-11-8.6-40-4

NOTES	SHEAR AREA(L):
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HARDNESS TEST																									
NO.	HEAT NO.	LOT NO.	SPECIMEN	*1	*2	*3	HV10																		
							IN.					MID.					OUT.								
							1	2	3	4	AVG	1	2	3	4	AVG	1	2	3	4	AVG				
1	525794	48005	D220801115A	P	B	I	138	138	137	138	138										140	138	139	140	139
2	525794	48006	D220801116B	P	B	I	144	143	144	143	144										144	143	141	142	143
3	525794	48007	D220801117A	P	B	I	137	135	137	137	137										134	134	133	134	134
4	525794	48008	D220801118B	P	B	I	135	134	134	133	134										136	134	134	136	135
5	525794	48009	D220801119A	P	B	I	137	136	134	137	136										137	137	136	135	136
6	525794	48010	D220801120B	P	B	I	127	127	126	131	128										130	129	129	131	130
7	525794	48011	D220801121A	P	B	I	134	138	135	130	134										131	131	131	132	131

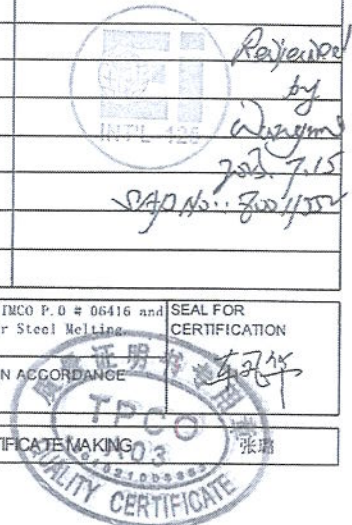
NOTES *1 TEST TYPE (P: PRODUCT TEST, S: SAMPLE TEST); *2 LOCATION(B:PIPE BODY,U:UPSETTING END); *3 QUADRANT

NON-DESTRUCTIVE TEST											
LOC.	ITEM	STANDARD	TYPE	LEVEL/REFERENCE				LEVEL	CVR	FREQ.	RESULT
				L-ID	L-OD	T-ID	T-OD				
FULL LENGTH	DEFECT	ISO 10893-2	ET					E2HΦ1.2	100%	100%	PASSED
PIPE	DEFECT	ISO 10893-10	UT	U2/C:N,5%	U2/C:N,5%	U2/C:N,5%	U2/C:N,5%		100%	100%	PASSED
END	DEFECT	ISO 10893-10	UT	U2/C:N,5%	U2/C:N,5%	U2/C:N,5%	U2/C:N,5%		100%	100%	PASSED
PIPE	LAMINAR	ISO 10893-8	UT					/	100%	100%	PASSED
BEVEL	BEVEL	ISO 10893-5	MT					/	100%	100%	PASSED
END	THK.TESTING	ISO 10893-12	UT					-12.5%~+15.0%	25%	100%	PASSED
END	LAMINAR	ISO 10893-8	UT					/	100%	100%	PASSED
PIPE	THK.TESTING	ISO 10893-12	UT					-12.5%~+15.0%	100%	100%	PASSED

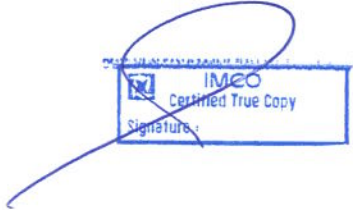
PROCESS INSPECTION OR TEST			
ITEM	INSPECTION DESCRIPTION	RESULT	REMARKS
VISUAL		PASSED	
DIMENSIONS		PASSED	
BENDING	12D/90	PASSED	
HIC		PASSED	
HYDROSTATIC	42.8MPa/6200.0PSI,10.00s	PASSED	
BEVEL	30°(0°~+5°),1.6±0.8mm	PASSED	
RESIDUAL MAGNETISM		PASSED	
RADIOACTIVITY		PASSED	

REMARKS	EN10204 Type 3.1 Certificate. Radiation level of pipes less than 100 Becquerels/gram. IMCO P.O # 06416 and item number 026. Residual magnetism of pipes far less than 30GS. Ultra-high-power EAF for Steel Melting. Steel is fully killed and fine grain practice and NACE MR 0175.	SEAL FOR CERTIFICATION
DECLARE	WE HEREBY STATE THAT ALL PIPES ARE MANUFACTURED, SAMPLED, TESTED AND INSPECTED IN ACCORDANCE WITH ALL ABOVE STANDARDS, AND HAS BEEN FOUND TO MEET THE REQUIREMENTS.	

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FAHSA for PRC
 2023/7/24



SAM.
 OBO TUR-R
 28/11/2024
 (R) 002