



MFRS: JiangSu TianHui Pipe Corporation
 ADD: Hanhou Road69, Qingpu Distcict, Huai'an City, Jiangsu Province China
 TEL: 86-517-83850681 FAX: 86-517-83850678

QUALITY CERTIFICATE

Licence NO.:
 NO.: 121407057

Contract No.		TPCO-14159E										O.D.×W.T.		18"×0.500" (Φ457.2×12.70)				Total Pieces		16														
Order		American Piping Products, Inc										Steel Grade		B/C/X42 PSL1				Total Tons		27.20														
Product		SEAMLESS STEEL LINE PIPE										Man. Method		HOT ROLLING SEAMLESS				Total Metres																
Standard		ASTM A106-2011 ASME SA106-2013 ASTM A53-2012 API 5L PSL1-45										Length Range		38-44ft (11.6-13.4m)				P.O.NO.		PO#P13190														
Heat NO.	Lot NO.	Quantity			Delivery condition	Sample No.	Tensile test(MPa)						Impact test(J)						%:shear															
		Pieces	Meters	Tons			1*	Tem.	T.S.	Type	Y.S.	Elong.	Shrink	2*	Tem.	Size	KV ₂	%	KV ₂	%	KV ₂	%	AVE	%										
140400609	01	16		27.20	Hot rolled	Z14050014		20	535	Rt0.5	355	40.0																						
Total		16		27.20		Note	(L0=50mm b0=38.1mm Longitudinal)																											
Heat NO.	Lot NO.	Sample NO.	HRC MAX	Hardness test (inside)					Hardness test (middle)					Hardness test (outside)					Bend Test	Fla. Test	Hydro. Test	NDE												
				1	2	3	4	AVE	1	2	3	4	AVE	1	2	3	4	AVE																
140400609	01	Z14050014		<20	<20	<20	<20	<20	<20	<20	<20	<20	<20	<20	<20	<20	<20	<20	<20	<20	<20		G	2000Pa/s	EMI+UT/L3+U3									
Heat NO.	Chemical composition % (L: Ladle analysis P: Product analysis)																																	
Material	C	Si	Mn	P	S	Ni	Cr	Mo	Cu	Al	Als	V	Nb	Ti	Zr	B	Zn	Ca	Pb	Sn	As	Sb	Bi	N	H	O	CE(PCM)	CE(IIW)						
140400609	L	0.16	0.30	1.26	0.014	0.004	0.01	0.05	0.01	0.03	0.0283	0.039		0.0018		0.0002		0.0009	0.0019	0.0025	0.0035	0.0005	0.0005											
Q345C-1	P	0.15	0.29	1.23	0.011	0.002	0.01	0.06	0.02	0.03		0.04	<0.01	<0.01		0.0003														0.38				
	P	0.15	0.29	1.24	0.011	0.002	0.01	0.06	0.02	0.03		0.04	<0.01	<0.01		0.0003														0.38				
	L																																	
	P																																	
	P																																	
	L																																	
	P																																	
	P																																	
5	NDE (100%)	Pipe end NDE	Visual & Dimension	Hydro. Test	Footface magnetist	Residual magnetist	Bevelling magnetist	We hereby state that all pipes are manufactured and inspected according to above standards and order.																			Seal for certification:							
	G	G	G	G	G	G	G																											
Note	1.No Weld Repair, Mercury Free 2.Country of origin for melt of steel: China 3.Country of origin for producer of pipe: China 4.EN10204-3.14 NACE MR0175-2009/ISO15156-2009/NACE MR0103-2010																			NO.	TH03.110.06		Date:	2014-8-5										
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Remark: desti.=destination; tem.=temperature; speci.= specification; Man.=Manufacture; G=Good; mag=magnetic

(FOR EXPORT ONLY)