Packing List 3666-1 (4/8/2015) Image 7785 (4/7/2015)

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

QUALITY CERTIFICATE

Licence NO.:

NO.: 121407057

1	Contract No.	TPCO-14159E	O.D.×W.T.	18"*0.938" (Φ457.2*23.83)	Total Pieces: 20
	Order	American Piping Products.Inc	Steel Grade	B/C/X42 PSL1	Total Tons: 66.56
	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

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Heat NO.	Lot NO.	Quantity: Pieces	Quantity: Meters	Quantity: Tons	Delivery condition	Sample No.	Tensile test(MPa) 1*	Tem.	T.S.	Type	Y.S.	Elong.	Shrink	Impact test(J) 2*	Tem.	Size	KV_2	%	KV_2	%	KV_2	%	AVE	%:shear %
140400611	01	20		66.56	Hot rolled	Z14040628		20	560	Rt0.5	375	32.0												
Total		20		66.56		Note	(L0=50mm d0=12.7mm Longitudinal)																	

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Heat NO.	Lot NO.	Sample NO.	HRC MAX	Hardness test (inside) 1	2	3	4	AVE	Hardness test (middle) 1	2	3	4	AVE	Hardness test (outside) 1	2	3	4	AVE	Bend Test	Fla. Test	Hydro. Test	NDE
140400611	01	Z14040628		<20	<20	<20	<20	<20	<20	<20	<20	<20	<20	<20	<20	<20	<20	<20		G	2970Psi/8s	EMI+UT/L3+U3

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Chemical composition % (L: Ladle analysis P:Product analysis)

Heat NO. / 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)
140400611	L	0.17	0.31	1.29	0.017	0.005	0.02	0.06	0.01	0.03	0.0265		0.035		0.0014		0.0002		0.0011	0.0016	0.0013	0.0032	0.0005	0.0005					
Q345C-1	P	0.15	0.31	1.28	0.016	0.005	0.02	0.06	0.02	0.03			0.04	<0.01	<0.01		0.0003												0.39
	P	0.15	0.30	1.27	0.015	0.005	0.02	0.06	0.02	0.03			0.04	<0.01	<0.01		0.0003												0.39
	L																												
	P																												
	P																												
	L																												
	P																												
	P																												

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NDE (100%)	Pipe end NDE	Visual & Dimension	Hydro. Test	Footface magnetest	Residual magnetist	Bevelling magnetest
G	G	G	G	G	G	G

We hereby state that all pipes are manufactured and inspected according to above standards and order.

Seal for certification:

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.EN10204-3.1 5.NACE MR0175-2009/ISO15156-2009/NACE MR0103-2010

NO.	TH03.110.06	Date:
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Remark:desti.=destination;tem.=temperature;speci.= specification;Man.=Manufacture;G=Good;mag=magnetic

(FOR EXPORT ONLY)

Our Order 272355-3-1 Your Order 339