

Mill Test Certificate

2125-64 Avenue, Edmonton, AB Canada T6P 1Z4 Bri-Steel Manufacturing Inc.

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www.bri-steel.com

Product: Seamless Carbon Steel Pipe

Product Heat Number:

BSM-2063

Product Size: 14S140

Production Date: Sep 30, 2014

Production Method: Hot Expansion

Product Heat Treatment: As-rolled

Certificate No.: MTR- 001393

Product Markings

Product Standards:

<API & L/C No.> API SPEC 5L NPS 14 SCH 140 1.250 INCHWT GR B PSL1 SMLS 2014/09 NDE 2800PSI

ASME B36.10-2004, API 5L-45th Ed. Grade B PSL1, ASTM/ASME A/SA106-2014 Grade B/C NDE, A/SA53-2012 Grade B Type S, NACE MR0175-2009 MR0103-2010

HEAT BSM-2063 (PIPE # LENGTH MASS) 170.2lb/ft ASTM/ASME A/SA106 GR B/C A/SA53 GR B NACE MR0175/MR0103 MADE IN CANADA

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	BSM-2063	Heat			BSM-2063		Heat	
Degas, Fully Nilled	Blast Furnace;	Stee			Heat		Test Type	
ā	Blast Furnace; EAF; Ladle Refining; Vacuum	Steelmaking Method			NPS 14 SCH 140 1.250in. WT		Product Size	Product: Details
Product	Heat	Test Type			n. WT		Pi	tails
0.20	0.19	С			1		Pieces	
0.90	0.90	Mn			DRL		Length	
0.014	0.016	Р	0		170.2	lb/ft	Mass	
0.005	0.007	S	Chemical Analysis (wt%)		<5	μR/hr	Geiger	
0.28	0.28	Si	nalysis (v		^	Gauss		
0.05	0.06	Cr	vt%)		<10	uss	Res. Mag.	
0.07	0.07	Си			Pass	Insp.	Visual	
0.01	0.01	Мо			Pass		OD	z
0.03	0.03	N:			Pass	TW	TU	on-Destru
0.003 0.002 0.001 0.0003 0.36	0.003	٧			Pass	ASTM E213 ASTM	TU	Non-Destructive Testing
0.002	0.002	Ti			-	13 A		90
0.001	0.001	Nb			Pass		EΤ	
0.0003	0.0004	В			Pass	2800 PSI/ 5 s Condition	HydroTest	
0.36	1	CE(IIW)			TD.	5 s C	st	
0.36	a t :	CE(IIW) CE(CSA)			Plain End	ondition	End	

	BSM-2063		Heat	
	Heat		Test Type	
	Ferrite & Pearlite		Microstructure	
	79 HRBW		Hardness	
The second secon	Pass		Flattening Test	
The state of the s	Longitudinal; 19.05 mm x WT	50mm GL	Tension Test	Mechanical Properties
	44,000	psi	Yield (Rt0.5)	
	71,500	psi	Tensile (Rm)	
	0.62	(Rt0.5/Rm)	Υ/Τ	
	45	%	Elongation (A)	

	1	1	-	í		ı	ı		ı		t	ı	ı		BSM-2063
3	mm	mm	mm	AVG	%	%	%	AVG	J	J	_	°C	Sample Details	Standard	
sio	Expan	Lateral Expansion			near	% Shear			Energy	Impact		Temp	Impact Test	Test	Heat

Additional Details:

🗸 We hereby certify that this pipe product was manufactured, sampled, tested and inspected by Bri-Steel Manufacturing Inc. in accordance with API 5L-45th Ed., ASTM/ASME A/SA106-2014 Grade B/C A/SA53-2012, and the purchase order requirements, and that the results meet the corresponding requirements. Bri-Steel Manufacturing is registered and certified to ISO-9001:2008 and API Q1.

√ This pipe product meets the sour service requirements of NACE MR0175/ISO 15156-2:2009 Annex A2 for Region 3 Sour Service-2009 NACE MR0103-2010 Section 2.1

Tonya Lam, C.E.T.

Oct 102 /2014

Mill Test Certificate approved by:

✓ No weld repairs have been performed on this product.

√ This product has not come into contact with mercury during the Bri-Steel Manufacturing processes

 \checkmark This certificate represents a quality control system that is compliant with EN 10204:2004 Type 3.1.

Assistant QA Manager