

Mill Test Certificate

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Product: Seamless Carbon Steel Pipe

Production Method:

Hot Expansion

Product Heat Number:

BSM-1915 Product

Product Size: 24S60

Production Date: Jul 01, 2014

Product Heat Treatment: As-rolled

Certificate No.: MTR- 001205

Product Standards: ASME B36.10-2004, ASTM/ASME A/SA106-2013 Grade B/C NDE, A/SA53-2012 Grade B Type S, NACE MR0175-2009 MR0103-2010

Product Markings Produc

HEAT BSM-1915 (PIPE # LENGTH MASS) 238.1lb/ft ASTM/ASME A/SA106 GR B/C A/SA53 GR B NACE MR0175/MR0103 MADE IN CANADA

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The second second	BSM-1915		Heat	
	Heat		Test Type	
	NPS 24 SCH 60 0.969in. WT		Product Size	Product: Details
	2		Pieces	
	DRL		Length	
	238.1	lb/ft	Mass	
	<5	μR/hr	Geiger	
	<20	Gauss	Res. Mag.	
	Pass	Insp.	Visual	
	Pass		OD	Nc
	Pass	TW		Non-Destructive Testing
	Pass	ASTM E213 ASTM	TU	tive Testing
	Pass	ASTM	ET	
	Pass	1900 PSI/ 5 s Condition	HydroTest	
	Plain End	Condition	End	

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0.000	3SM-1915		Heat	
	Heat		Test Type	
	Ferrite & Pearlite		Microstructure	
	81 HRBW		Hardness	
	Pass		Flattening Test	10 to
	Longitudinal; 19.05 mm x WT	50mm GL	Tension Test	Mechanical Froberties
	50,500	psi	Yield (Rt0.5)	
	71,500	psi	Tensile (Rm)	
	0.71	(Rt0.5/Rm)	Y/T	
	46	%	Elongation (A)	
		Ferrite & Pearlite 81 HRBW Pass Longitudinal; 19.05 mm x WT 50,500 71,500 0.71	Heat Ferrite & Pearlite 81 HRBW Pass Longitudinal; 19.05 mm x WT 50,500 71,500 0.71	Test Type Microstructure Hardness Flattening Test Tension Test Yield (Rt0.5) Tensile (Rm) V/T 50mm GL psi psi (Rt0.5/Rm) Heat Ferrite & Pearlite 81 HRBW Pass Longitudinal; 19.05 mm x WT 50,500 71,500 0.71

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BSM-1915

Standard

Sample Details

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AVG

%

%

%

AVG

mm

mm

mm

AVG

- \checkmark We hereby certify that this pipe product was manufactured, sampled, tested and inspected by Bri-Steel Manufacturing Inc. in results meet the corresponding requirements. accordance with ASTM/ASME A/SA106-2013 Grade B/C A/SA53-2012, and the purchase order requirements, and that the
- √ 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
- ✓ No weld repairs have been performed on this product.
- \checkmark 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.

Mill Test Certificate approved by:

lam Ind. 03.2014

Tonya Lam, C.E.T.

Assistant QA Manager