

Mill Test Certificate

Bri-Steel Manufacturing Inc.

2125-64 Avenue, Edmonton, AB Canada T6P 1Z4 Tel: 001 (780) 469-6603 Fax: 001 (780) 469-6986

www.brichemsteel.com

NPS 24 SCH 60 Production Date: January 7, 2013

Product:

Seamless Carbon Steel Pipe

Product Heat Number:

BSM-0641

Product Size:

Production Method: Hot Expansion Product Heat Treatment: As-rolled

Product Standards: ASME B36.10-2004, ASTM/ASME A/SA106-2011 Grade B NDE, A/SA53-2012 Grade B Type S, NACE MR0175-2009, MR0103-2010

Product Markings: .BRI-STEEL MFG ASTM/ASME A/SA106 GR B A/SA53 GR B NPS 24 SCH 60 HEAT BSM-0641 (PIPE # LENGTH MASS) 238.11b/ft NDE SMLS NACE MR0175 2013/01 MADE IN CANADA.

BSM-0641	Heat		
Heat	Test Type		
24	NPS		_
SCH 60	Thickness	Wall	Product Detail
8	Pieces		S
DRL	Length		
238.10	lb/ft	Mass	
<5	μR/hr	Geiger	
<20	Gauss	Res.Mag.	
Pass	Insp.	Visual	
Pass	OD		Non-C
Pass	TW	UT	estructive :
Pass	ASTM E213	TU	Testing
Pass	ASTM E309	ET	
*		HydroTest	
Plain End	Condition	End	

	BSM-0641	Heat		
	BSM-0641 Heat	Test Type		
	Ferrite & Pearlite	Microstructure		
	74	HRBW	Hardness	
	Pass	Flattening Test		Mechar
Longitudinal; 38.1mm x WT	Transverse; 38.1mm x WT	50mm GL	Tension Test	Mechanical Properties
45,200	38,200	psi	Yield (Rt0.5)	
45,100	45,200	psi	Yield (Rp0.2)	
68,500	69,500	psi	Tensile (Rm)	
0.66	0.55	(Rt0.5/Rm)	T/Y	
60	58	%	Elongation (A)	

Additional Details:

results meet the corresponding requirements. Inc. in accordance with ASTM/ASME A/SA106-2011, A/SA53-2012 and the purchase order requirements, and that the ✓ We hereby certify that this pipe product was manufactured, sampled, tested and inspected by Bri-Steel Manufacturing

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

✓ No weld repairs have been performed on this product.

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

√ This certificate represents a quality control system that is compliant with EN 10204:2004 Type 3.1.
*Note that this product was hydrotested to 1000 psi for 5 seconds.

Mill Test Certificate approved by:

Kenton Dechant, P.Eng. Manager of Quality and R&D

2013Jan 22