

Mill Test Certificate

Bri-Steel Manufacturing Inc.

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Product: Seamless Carbon Steel Pipe

Product Heat Number:

NPS 24 TRUE40

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

Product Markings:

BSM-0515

Product Size:

Production Date: October 23, 2012

Product Standards: ASME B36.10-2004, API 5L-44th Ed. Grade B PSL1, ASTM/ASME A/SA106-2011 Grade B/C NDE, A/SA53-2012 Grade B Type S, NACE MR0175-2009, MR0103-2010

.BRI-STEEL MFG <API> 5L-0898 API 5L GR B PSL1 ASTM/ASME A/SA106 GR B/C A/SA53 GR B NPS 24 TRUE40 HEAT BSM-0515 (PIPE # LENGTH MASS) 171.2Ib/ft NDE 1220PSI SMLS NACE MR0175 2012/10 MADE IN CANADA.

| BSM-0515 Heat 2 | Heat Test Type NPS | | |
|-----------------|---------------------------|-----------|-----------------|
| 4 TRUE40 | PS Thickness | | Product Details |
| 5 | Pieces | | ils |
| DRL | Length | | |
| 171.20 | lb/ft | Mass | |
| \$ | μR/hr | Geiger | |
| <20 | Gauss | Res.Mag. | |
| Pass | insp. | Visual | |
| Pass | OD | | Non-D |
| Pass | TW | TU | estructive T |
| Pass | ASTM E213 | TU | esting |
| Pass | ASTI | ET | |
| Pass | M E309 1220 psi/5s Con- | HydroTest | |
| Plain End | Condition | End | |

| | BSM-0515 | Heat | | |
|-----------------------------|-------------------------------------|--------------------|----|-------------------------|
| Vacuum Degas; Fully Killed | Blast Furnace; EAF; Ladle Refining; | Steelmaking Method | | |
| Product | Heat | Analysis | | |
| 0.20 | 0.20 | C | | |
| 0.94 | 0.93 | Mn | | |
| 0.017 | 0.013 | P | | |
| 0.94 0.017 0.004 0.30 | 0.002 | S | | Chemica |
| 0.30 | 0.30 | Si | | Chemical Analysis (wt%) |
| 0.03 | 0.04 | ç, | | (wt%) |
| 0.08 | 0.08 | Cu | | |
| 0.03 | 0.01 | Mo | | |
| 0.04 | 0.02 | Z. | | |
| 0.004 | 0.003 | < | | |
| 0.002 | 0.002 | Ti | | |
| 0.001 | 0.001 | Nb | | |
| 0.0001 | 0.0002 | В | | |
| 0.38 | t | (IIW) | CE | |
| 0.39 | 1 | (CSA) | CE | |

| BSIMI-USIJ Hear Ferrite & Pearlite 79 | Test Type Microstructure HRBW Flattening Test 50mm GL psi psi |
|---|---|
|---|---|

Additional Details:

and that the results meet the corresponding requirements. ✓ We hereby certify that this pipe product was manufactured, sampled, tested and inspected by Bri-Steel Manufacturing Inc. in accordance with API 5L-44th Ed., ASTM/ASME A/SA106-2011, A/SA53-2012 and the purchase order requirements,

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.

Mill Test Certificate approved by:

Kenton Dechant, P.Eng.

2012200120

Manager of Quality and R&D