

Issued: 01/01/11
FF-0028

Frazier & Frazier Ind., Inc.

Revised: 09/14/2022

METALLURGICAL TEST CERTIFICATION

An ISO 9001 Registered Company

P. O. Box 279

Coolidge, Texas 76635

(254)786-2293

Manufactured with Pride in the USA

175 32159-001
32960009

175 32160-001
32960010

Customer: R&M ENERGY-BORGER P. O. No.: 7259681 ✓

Part No.: 175 23674-001
120B 32990104 ✓ Tap No.: 31 F3

Cast Date: 04/04/2014 Material: ASTM A395 60-40-18 ✓

Heat No.: 44 R ✓ Quantity: 186 PCS.

CHEMICAL ANALYSIS:

C	Si	Mn	S	P	Ni	Cr	Mo
3.63	2.69	.343	.027	.065	.024	.048	.004

Cu	Al	Mg	Ti	Pb	Sn	Bi	Ce
.065	.012	.033	.009	.004	.017	.002	.003

MECHANICAL PROPERTIES:

Condition	Diameter	U.T.S. (psi)	Y.S. (psi)	% Elongation	BHN
GOOD	.502	70,687 ✓	45,872 ✓	19.35 ✓	179 ✓

Remarks:

Tests were performed in accordance with current ASTM A395 60-40-18 specifications and met the requirements of the same.

Signed: Malissa K. Long
Malissa K. Long
Title: Quality Specialist
Date: 01/06/2023



Reviewed and Approved By:
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TB 1232