

Issued: 01/01/11
FF-0028

Frazier & Frazier Ind., Inc.

Revised: 09/14/2022

17532108-001
32960370

METALLURGICAL TEST CERTIFICATION

An ISO 9001 Registered Company

P. O. Box 279

Coolidge, Texas 76635

(254)786-2293

Manufactured with Pride in the USA

Customer: R&M ENERGY-BORGER P. O. No.: 4006113 ✓
 Part No.: 17523669-001 / 120 32990518 ✓ Tap No.: 13 F5
 Cast Date: 05/19/2019 Material: ASTM A536-65-45-12 ✓
 Heat No.: 5 L W ✓ Quantity: 100 PCS.

CHEMICAL ANALYSIS:

C	Si	Mn	S	P	Ni	Cr	Mo
3.78	2.68	.358	.013	.022	.064	.052	.002

Cu	Al	Mg	Ti	Pb	Sn	Bi	Ce
.137	.010	.039	.006	.003	.018	.002	.003

MECHANICAL PROPERTIES:

Condition	Diameter	U.T.S. (psi)	Y.S. (psi)	% Elongation	BHN
GOOD	.499	68,200 ✓	45,982 ✓	22.18 ✓	174

Remarks:

Tests were performed in accordance with current ASTM A536 65-45-12 specifications and met the requirements of the same.

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



Reviewed and Approved By:
TS 1-6-23