SGS MSi

TEST REPORT

[redacted]

Report No.: 207891B
Date: 8-6-13
Order No.:
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Attn: Mr. Jack S.

Supplement to Report No. 207891A.

SAMPLE IDENTIFICATION

Quantity	Sample ID
2	See Below

TEST RESULTS *

CHEMICAL TESTING

Element	BNEB
Carbon	.029 %
Manganese	.60
Phosphorus	.027
Sulfur	<.005
Silicon	.36
Nickel	10.71
Chromium	17.15
Molybdenum	2.12
Copper	2.48
Nitrogen	**
UNS Grade Designation (Type)	**S31603 (316L) ** **

Element	UBNEB (Sample B)[1]
Aluminum	5.94 %
Carbon	.012
Iron	.16
Hydrogen	.006
Nitrogen	.008
Oxygen	.06
Vanadium	4.13
Titanium	Balance
UNS Grade Designation	**R56401*** **

* Testing performed in accordance with ASTM E1479 and E1019.

** Sample appears similar to 316L stainless steel, however there was insufficient sample to analyze for nitrogen. Copper content appears to be high, but there are no requirements for copper.

*** The preceding test results indicate the submitted sample indentified as **UBNEB (Sample B)** conforms to the specified chemical requirements of ASTM F136-12a.[2]

Note 1: Per customer request, previous test from report 205433-2 added to this lab for comparison.

Note 2: Information added to report per customer request.

Approved By: David G. Hoffman, Senior Metallurgical Engineer

ACCREDITED TESTING CERTS 510.01 & 510.02