



**BUREAU  
VERITAS**

Rio de Janeiro, July 13th, 2009.

## ANALYSIS REPORT CIT RJ 20090713

**CLIENT** : Viena Siderúrgica S.A.  
**PRODUCT TO BE ANALYSED** : Pig Iron  
**QUANTITY** : 02 samples

We hereby certify that at request and on behalf of Viena Siderúrgica S.A., we carried out chemical analysis on submitted samples of Pig Iron, and have to report as follows:

### Certificate of Analysis

**Material received:**

02 samples of Pig Iron, identified as "A-001" and "A-002"

**Services required:**

Chemical Analysis – Al, Sb, As, Bi, C, S, Pb, Cu, Cr, P, Sn, Mg, Mn, Mo, Ni, K, Ti, V, Zn

Sample ID	Results (%)									
	Al	Sb	As	Bi	C	S	Pb	Cu	Cr	P
A-001	0.0046	0.0022	0.0004	0.0021	4.25	0.015	0.0022	0.0128	0.002	0.058
A-002	0.0021	0.0027	0.0002	0.0022	4.24	0.015	0.0026	0.0121	0.002	0.056

  

Sample ID	Results (%)								
	Sn	Mg	Mn	Mo	Ni	K	Ti	V	Zn
A-001	< 0.0001	0.0012	0.63	< 0.0001	0.0024	0.0021	0.0097	0.0071	0.0135
A-002	0.0001	0.0006	0.67	< 0.0001	0.0012	0.0026	0.0105	0.0072	0.0097

**OLCINIO SANTOS VIEIRA**  
Bureau Veritas do Brasil Ltda