



10694 0002 PELLUS MANUFACTURING  
7046 INDUSTRIAL DRIVE  
BOX 208  
COMBER (ON) N0P 1J0

ATTENTION : Chris Pellier

FAX : (513) 687-2205

MILL TEST CERTIFICATE

IVACO ROLLING MILLS LP

P.O. BOX 322, L'ORIGNAL, ONTARIO, CANADA K0B 1K0  
TEL.: (513) 675-4671 FAX: (513) 675-6666



NVLAP

Lab Code 200143-0

P.O. Number	Order Number	Heat Number	Customer Spec.	Spec Rev. No.	Customer Part No.	Date Rolled	03-Jul-2007	Date Chemical Analysis Performed	24-Jun-2007	
PEL3-035	20019879	A87892	1018					Billet Order	247589	
								Grade	1018	
								Diameter	15.00 mm	
Heat Analysis										
Spec. Min*	C	Mn	P	S	Si	Cu	Ni	Cr	Mo	Sn
	.15	.60								
Actual	.19	.66	.005	.011	.23	.14	.06	.080	.015	.008
Spec. Max*	.20	.90	.040	.050						

This is to certify that heat number A87892 is in conformance with the required specifications.

Heat analysis obtained by test methods ASTM E415 and ASTM E1019.

\*Minimum and maximum refer to the required customer specification.  
This is to certify that the material is in conformance with the required specifications.  
Radioactive emissions are at background levels.

APPROVED BY:

Supervisor, Chemistry Laboratory and Billet Inspection

ISSUED BY QUALITY ASSURANCE

Date: 5 Jul 2007

Specification Clerk

This certificate shall not be reproduced except in full, without the written approval of Ivaco Rolling Mills Inc. This certificate is not to be used by the client to claim product endorsement by NVLAP or any agency of the U.S. Government.

NVLAP only covers the chemistry presented within this certificate. All other data is not covered by the NVLAP accreditation.