Material Test Report

Heat Code: AWH

An Ameri-Forge Group Company 13770 Industrial Rd., Houston, TX 77015

NHT COFFR

Line: 1

ISO 9001:2000 Certified

Sales: (713) 868-4421 Fax: (713) 455-8366

PLESA ANAHUAC Y CIAS SA DE CV AV. VALLE DE LAS ALAMEDAS 66-0

54940 TULTITLAN, EDO MEX

PO: 5101 Sales Order: 66536 Item Code: 0153912100-0020F Qty Shipped: 4 Item Desc: FLG 12.00 0150 BL RF A105

Supplier: CMC

Supplier Heat: 3002682

Spec: ASME SA-105/SA-105M 2004 Section II/ASTM A105/A105M-03

Elemen	nt (%wt)	Ladle	Product	EPCR/	A CAS#	Element	(%wt)	Ladle	Product	EPCRA	CAS#
C C	Carbon	0.19				Cr Chromi	um	0.10		V 7	440-47-3
Mn Ma	langanese	0.91		1	7439-96-5	Mo Molybo	lenum	0.013			
P PI	hosphorous	0.010				V Vanadi	um	0.001			
S St	ulphur	0.020				Cb Columb	ium	0.003			
Si Si	ilicon	0.18				C.E.		0.382			
Cu co	opper	0.20		1	7440-50-8	CuNiCrMo		0.38			
Ni Ni	ickel	0.07		1	7440-02-0	CrMo		0.11			

Mechanic	cal	Other				
Test Lab	AFG	EF				
Test Bar Size	SACRIFICIAL PIECE					
нви	149-149					
Elg (%)	36.0					
RA (%)	66.0					
Tensile Specimen Size (in)	0.496					
Tensile (ksi)	72.0					
rield (ksi)	40.6					
Sauge Length	2.00					

Product compliant with NACE MR0175 / ISO 15156, latest edition and dimensions to ANSI B16.5 Product compliant with and meets all requirements of ASTM A105/ASME SA105, latest edition.

Chemical Analysis results shown are actual. Forgings are capable of passing No Weld repair performed. hydrostatic test compatible with the appropriate rating. Blongation taken from a round specimen. All material supplied under this order is certified to be free of mercury contamination and no mercury bearing equipment was used in manufacturing, fabrication or testing. Yield strength was determined using the 0.2% offset method.

EPCRA Supplier Notification: This product may contain one or more toxic chemicals subject to the reporting requirements of Section 313 of the Emergency Planning and Community Right-to-Know Act (Title III of the Superfund Amendments and Reauthorization Act of 1986) and 40 C.F.R. Part 372. Potentially reportable chemicals are indicated with a checkmark in the "EPCRA" column and a Chemical Abstract Services (CAS) registry number is provided for each such chemical in addition to the percent by weight of the chemical present in this product. It is your responsibility alone to determine whether your facility is required to submit a Toxic Release inventory Report under EPCRA Section 313.

Certification No.:

149807

Certification Date:

9/23/2008

This report is issued in compliance with the requirements of EN10204 3.1 / ISO 10474 3.1.b

Nieleles Lepone

Nicholas Tepovich - Metallurgic Lab Manager