Material Test Report

Heat Code: CSG

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

ISO 9001:2000 Certified

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

PLESA ANAHUAC Y CIAS SA DE CV AV. VALLE DE LAS

PO: 5101

Sales Order: 66536 Line: 25

ALAMEDAS 66-0

Item Code: 0151400101-0020F

Qty Shipped: 106

Item Desc: FLG 04.00 0150 WN RF STD A105 Supplier: CMC

NHT COFFR

54940 TULTITLAN, EDO MEX

Supplier Heat: 3004375

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

C Carbo Mn Mango P Phos	nese	0.21	,		Cr	Chromium	,	0.07	/ 7	440-47-3
		0.90								440 41 3
P Phos			1	7439-96-5	Mo	Molybden	ıun	0.020		
	phorous	0.008			v	Vanadium	n	0.001		
S Sulpl	iur	0.018			Cb	Columbiu	ım	0.002		
Si Sili	on	0.19			C.E.			0.399		
Cu Coppe	ır	0.24	1	7440-50-B	CuNi	CrMo		0.40		
Ni Nicke	1	0.07	1	7440-02-0	CrMc	,		0.09		

Mechanic	al	Other	
Test Lab	AFG	EF	
Test Bar Size	SACRIFICIAL PIECE		
HBW	149-149		
Elg (%)	32.0		
RA (%)	63.0		
Tensile Specimen Size (in)	0.246		
Tensile (ksi)	76.3		
Yield (ksi)	41.4		
Gauge Length	2.00		
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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.

No Weld repair performed. Chemical Analysis results shown are actual. Forgings are capable of passing hydrostatic test compatible with the appropriate rating. Elongation 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 (Tile 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 elone to determine whether your facility is required to submit a Toxic Release Inventory Report under EPCRA Section 313.

Certification No.:

149798

Certification Date:

9/23/2008

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

Nicholas Tepovich - Metallurgic Lab Manager

Violadas Lepare