Coffer*

Material Test Report

Heat Code: ZHA

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 ALAMEDAS 66-0

54940 TULTITLAN, EDO MEX

PO: 4540 Sales Order: 64906 Line: 4

Item Code: 0151200101-0020F Otty Shipped: 100

Item Desc: FLG 02.00 0150 WN RF STD A105 NHT COFFR

Supplier: CMC Supplier Heat: 258974

Spec: ASTM A 105/A 105M-05/ASME SA 105/SA 105M 2007 Section II, Part A, Melt Practice EF

	ent (%wt)	Ladle	Product	EPCR	A CAS#	Elem	ent	(%wt)	Ladle	Product	EPCRA	CAS#
c	Carbon	0.19				Cr	Chromium	1	0.10		✓ 7	440-47-3
Mn	Manganese	0.86		✓	7439-96-5	Mo	Molybden	num	0.029			
P	Phosphorous	0.010				v	Vanadium	1	0.001			
S	Sulphur	0.015				СР	Çolumbiu	am.	0.001			
Si	Silicon	0.21				C.E.			0.382			
Cu	Copper	0.25		✓	7440-50-B	CuNi	CrMo		0.47			
Ni	Nickel	0.09		✓	7440-02-0	CrMo			0.13			

Mechanic	cal	Other					
Test Lab	AFG	Country of Origin	USA (US)				
Test Bar Size	SACRIFICIAL PIECE	EF	Y				
HBW	163-163						
Elg (%)	30.0						
RA (%)	60.0						
Tensile Specimen Size (in)	0.247						
Tensile (ksi)	80.4						
Yield (ksi)	47.2						
Gauge Length	1.00						

Product compliant with NACE MRO175, latest edition.

Product compliant with and meets all requirements of ASTM A105/ASME SA105-05.

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 (Title III of the Superfund Amendments and Reauthorization Act of 1986) and 40 C.F.R. Parl 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.:

142792

Certification Date:

5/30/2008

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

Puneet Saggar - Plant Metallurgist