Material Test Report

Heat Code: YNM

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

Item Code: 0151912101-0020F

Qty Shipped: 20

ALAMEDAS 66-0

54940 TULTITLAN, EDO MEX

Item Desc: FLG 12.00 0150 WN RF STD A105

NHT COFFR

Supplier: CMC

PO: 4077

Supplier Heat: 256251

Sales Order: 63343

Spec: ASTM A 105/A 105M-03/ASME SA 105/SA 105M-04, Melt Practice EF

Elem	ent (%wt) Ladle	Product	EPCR/	A CAS#	Element	(%wt)	Ladle	Product	EPCRA	CAS#
С	Carbon	0.19				Cr Chromi	ium	0.09		V 7	440-47-3
Mn	Manganese	0.89		~	7439-96-5	Mo Molybo	denum	0.028			
P	Phosphorous	0.012				V Vanadi	i um	0.002			
s	Sulphur	0.016				Cb Columb	oium	0.001			
Si	Silicon	0.19				C.E.		0.386			
Cu	Copper	0.25			7440-50-8	CuNiCrMo		0.47			
Ni	Nickel	0.10		• /	7440-02-0	CrMo		0.12			

Mechanic	al	Other		
Test Lab	AFG	Country of Origin	USA (US)	
Test Bar Size	SACRIFICIAL PIECE	EF	Y	
HBW	167-167			
Elg (%)	33.0			
RA (%)	61.0			
Tensile Specimen Size (in)	0.504			
Tensile (ksi)	79.0			
Yield (ksi)	45.3			
Gauge Length	2.00			
,				
				`
		•		

Product compliant with DIMS. to ANSI Product compliant with NACE MRO175, latest edition.

Product compliant with and meets all requirements of ASTM Al05/ASME SAl05-05.

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. 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.:

135654

Certification Date:

2/22/2008

Puneet Saggar - Plant Metallurgist

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