Material Test Report

COFFER® an AFGN Da Company

Heat Code: WDJ

An Ameri-Forge Group Company 13770 Industrial Rd. Houston, TX 77015 Sales: (713) 868-4421 Fax: (713) 455-8366

Line: 4

ISO 9001:2008 Certified

Sales Order: 136529 PO: 232 PLESA STEEL INC. Qty Shipped: 10 Item Code: 0301400102-0020F 12700 NORTHBOROUGH DR Item Desc: FLG 04.00 0300 WN RF XH STE 646

Supplier Heat: 3038557

Supplier: CMC Houston, TX 77067

Spec: ASTM A105/A105M-(13)/ASME SA 105/SA 105M-(13) Section II Part A

Eler	nent	(%wt)	Ladle	Product	EPCRA	CAS#	Element	(%wt)	Ladle	Product	EPCRA	CAS#
C	Carbon	California and American	0.21	MANUFACTURE STATE OF THE PARTY		and other stop or between the Stoppers	Cr Chron	nium	0.09		1 7	440-47-3
Mn	Manganese 1.05			1 7	7439-96-5	Mo Molyk	odenum	0.04				
P	Phosphorous		0.011				V Vanac	lium	0.002			
S	Sulphu	ır	0.022				Cb Colum	nbium	0.000			
Si	Silicon		0.22				C.E.		0.43			
Çu	Copper		0.18		1 .	7440-50-8	CuNiCrMo		0.423			
Ni	i Nickel		0.11		1 -	7440-02-0	CrMo		0.133			

Mechanical 1	lesting leading	Other				
Test Lab	AFG	MILL	CMC			
Test Bar Size	Sacrificial Piece	MHC	3038557			
HBW	170 - 170	Country of Origin	USA			
Elg (%)	30.0	EF	Y			
RA (%)	56.0	DESC:	TAG: LINE# 80			
Tensile Specimen Size (in)	.501	DESC2:	PO# 4510245171			
Tensile (ksi)	82.5		181			
Yield (ksi)	47.9					
Gauge Length	` 2					

No Weld repair performed. Ladle Chemical Analysis results are reported from the raw material suppliers MTR.

Forgings are capable of passing hydrostatic test compatible with the appropriate rating.

* Elongation taken from a round specimen.

Yield strength was determined using the .2% offset method.

* 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.

* When reported on MTR: Tensile Testing Per ASTM E8; Brinell Hardness Per ASTM E10; Charpy Testing Per ASTM E23
* AF Global manufactures materials according to a certified Quality Management System conforming to ISO 9001:2008 and PED 97/23/EC, Annex 1, Section 4.3

Product compliant with NACE MR0175 / ISO 15156 latest edition and dimensions to ASME B16.5 - 2013

The recording of false, ficilitious, or fraudulent statement or entries on this document may be punishable as a felony under federal statute.

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.:

303815

Certification Date:

6/13/2014

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

Wetallurgical Lab Manager Rina Sano -