

## Material Test Report

Heat Code: WPZ

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

ISO 9001:2008 Certified

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

PO: 122 PLESA STEEL INC. Sales Order: 127804 Line: 7 Item Code: 0151600102-0020F 5100 WESTHEIMER ROAD Qty Shipped: 100 SUITE 200 Item Desc: FLG 06.00 0150 WN RF XH Houston, TX 77056 Supplier: ASW Steel Inc. Supplier Heat: 76418 Spec: ASTM A105/A105M-(12)/ASME SA 105/SA 105M-(13) Section II Part A

Elem	ent	(%wt)	Ladle	Product	EPCR	A CAS#	Element	(%wt)	Ladle	Product	EPCRA	CAS#
2	Carbon		0.19				Cr Chrom	ium	0.10		<b>✓</b>	7440-47-3
in	Manganese 1.07 ,			/	7439-96-5	Mo Molybdenum		0.03				
?	Phosphorous 0.009					V Vanad:	Lum	0.002				
5	Sulphur		0.001				Cb Columb	oium	0.003			
Si	Silicon 0.28			C.E.			0.41					
Cu	Copper 0.17		0.17		√ 7440-50-8		CuNiCrMo		0.420			
₹i	Nickel 0.12			1	7440-02-0	CrMo		0.130				

:	Other				
MILL	ASW STEEL				
Piece MHC	76418				
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AmeriForge manufactures materials according to a certified Quality Management System conforming to ISO 9001:2008 and in compliance to PED 97/23/EC, Section 4.3

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. 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. Made

No weld repair performed on this product.

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

Tensile Testing Per ASTM E8; Brinell Hardness Per ASTM E10

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.:

278353

Certification Date:

9/18/2013

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