

# CERTIFICATE OF INSPECTION & TEST

ORIGINAL



**ST&H CORPORATION**  
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(EN 10204 3.1)

Certified to ISO9001:2008, ISO14001:2004, PED97/23/EC by LRQA

Certified API Spec Q1 and API Spec 6A (Licence No : 6A-1284)



Customer : PLESA ANAHUAC Y CIAS.,S.A DE C.V.				Contract No. : 15982				Report No : MSH8188				Date: SEP.09.2013				
Spec. For Material : ASTM/ASME A/SAI05N-11(NACE MR0175/ISO 15156-2009)												Heat Treatment				
Chemical Composition (%)		C	Si	Mn	P	S	Ni	Cr	Mo	Cu	V	910°C NORMALIZED & AC				
Heat No./Batch no.	MAX	0.350	0.350	1.050	0.035	0.040	0.400	0.300	0.120	0.400	0.080					
	MIN		0.100	0.600												
038051		0.208	0.244	0.980	0.015	0.006	0.006	0.030	0.002	0.011	0.004	Dimensional Inspection				
Tension Test						Charpy Impact Test (10x10 mm Specimen Size)										Hardness Test (HB)
Size of Specimen(mm)		Yield Strength MPa	Tensile Strength MPa	Elongation %	Red of Area %	Individual min		Average min		Notch Type		ANSI B16.5 - 2009  GOOD				
Dia	Gage Length					Test Result				Temp						
12.5	50	MAX														187
		MIN	250.000	485.000	22.000	30.000	①	②	③	Average						
12.5	50		296.000	504.000	37.000	66.000					153, 156		Ultrasonic Examination			
ITEM / SIZE		Q'TY		ITEM / SIZE		Q'TY		ITEM / SIZE		Q'TY		N/A Magnetic Particle Examination				
150LBS SORF 24"		10		BLANK				BLANK								N/A
BLANK												Remarks : **CE = 0.38 (LONG FORMULAR)				

NOTE :  
 1MPa = 145.037 psi  
 1MPa = 0.145037 ksi  
 1psi = 0.006895 MPa  
 1ksi = 6.89476 MPa

W.C:Water Cool O.C:Oil Cool  
 A.C:Air Cool N.A:Non Action  
 N:Normalized A:Annealed  
 Q.T:Quenched and Tempered  
 N.T:Normalized and Tempered

We hereby certify that the material herein has been made and tested in accordance with the above specification and also with the requirements called for by the above order.

*[Signature]*



Witnessed by / H. J. LEE      Manager of Q.A Dept. / S. H. LEE