

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/SA105N-11(NACE MR0175/ISO 15156-2009)												Heat Treatment				
Chemical Composition (%)		C	Si	Mn	P	S	Ni	Cr	Mo	Cu	V	910°C NORMALIZED & A C				
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												
03802F		0.220	0.212	0.990	0.017	0.008	0.002	0.004	0.032	0.010	0.005	Dimensional Inspection				
Tension Test		Charpy Impact Test (10x10 mm Specimen Size)				Hardness Test (HB)		Bending Test 90:120(180°)								
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	MAX				Test Result				187						
12.5	50					MIN	250.000	485.000	22.000		30.000					①
12.5	50		357.000	563.000	34.000	68.000						155, 158	Ultrasonic Examination			
ITEM / SIZE		Q'TY	ITEM / SIZE		Q'TY	ITEM / SIZE		Q'TY	N/A							
600LBS WNRF STD 2"		20	BLANK			BLANK							Magnetic Particle Examination			
BLANK									N/A							
													Remarks : **CE = 0.39 (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