

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)



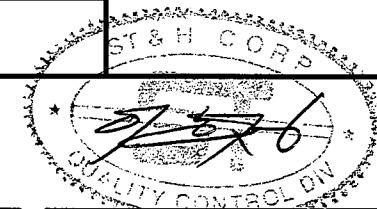
Customer : PLESA ANAHUAC Y CIAS.,S.A DE C.V.				Contract No. : 15090				Report No : MHJ7913				Date: APR.15.2013		
Spec. For Material : ASTM/ASME A/SA105N-11(NACE MR0175/ISO 15156-2009)												Heat Treatment		
Chemical Composition (%)		C	Si	Mn	P	S	Ni	Cr	Mo	Cu	V	N	910°C NORMALIZED & A.C	
Heat No.	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										
B3647		0.190	0.180	0.980	0.016	0.004	0.017	0.010	0.030	0.010	0.003			
Tension Test						Charpy Impact Test (10x10 mm Specimen Size)				Hardness Test (HB)		Bending Test 90:120(180°)		ANSI B16.5 - 2009 GOOD
Size of Specimen(mm)		Yield Strength MPa	Tensile Strength MPa	Elongation %	Red of Area %	Individual		Average		Notch Type	Temp			
Dia	Gage Length					min	min	Test Result						
12.5	50	MAX								187				
		MIN	250.000	485.000	22.000	30.000	①	②	③				Average	
12.5	50		430.000	565.000	32.000	68.000					143, 146			
ITEM / SIZE			Q'TY	ITEM / SIZE			Q'TY	ITEM / SIZE			Q'TY	Ultrasonic Examination N/A Magnetic Particle Examination N/A Remarks : **CE = 0.36 (LONG FORMULAR)		
600LBS BLRF 8"			10	BLANK				BLANK						
BLANK														

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.

Witnessed by/ K. S. KIM



Manage of Q.A Dept/ H. J. LEE