



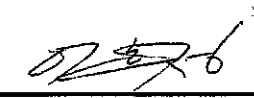
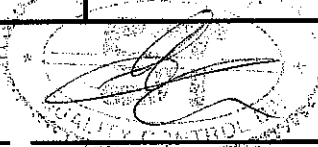
CERTIFICATE OF INSPECTION & TEST

ORIGINAL



ST&H CORPORATION
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 Tel : 82.51.744-4680(5line) Fax : 82.51.744-4670
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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. : 17225				Report No : MJW8458				Date: JAN.02.2014			
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											
T2697E		0.184	0.225	0.970	0.020	0.011	0.027	0.041	0.002	0.037	0.001	Dimensional Inspection			
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							
Dia	Gage Length					min	min	Temp							
12.5	50	MAX				Test Result				187	149, 153				
		MIN	250.000	485.000	22.000	30.000	①	②	③	Average					
12.5	50		305.000	547.000	28.000	41.000						Ultrasonic Examination			
ITEM / SIZE		Q'TY	ITEM / SIZE		Q'TY	ITEM / SIZE		Q'TY	Ultrasonic Examination						
150LBS WNRF S40 12"		50	BLANK			BLANK			N/A						
BLANK									Magnetic Particle Examination						
									N/A						
									Remarks :						
									**CE = 0.36 (LONG FORMULAR)						
									 Witnessed by / H. J. LEE						
									 Manager of Q.A Dept./ J. W. PARK						

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 / H. J. LEE Manager of Q.A Dept./ J. W. PARK