

# CERTIFICATE OF INSPECTION & TEST

ORIGINAL



**ST&H CORPORATION**  
 411-3 Shinwol-ri, Jinryemyun, Gimhae-si Gyeongnam, Korea  
 Tel: 82.51.744-4680(5 line) Fax: 82.51.744-4670  
 E-mail: stcorp@kornet.net

(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 & 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											
T2060B		0.198	0.263	0.910	0.020	0.005	0.070	0.070	0.006	0.053	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		Notch Type	Temp	187			
Dia	Gage Length					min	min								
12.5	50	MAX				Test Result				144, 146					
		MIN	250.000	485.000	22.000	30.000	①	②	③		Average				
12.5	50		313.000	535.000	35.000	69.000						Ultrasonic Examination			
ITEM / SIZE			Q'TY	ITEM / SIZE			Q'TY	ITEM / SIZE			Q'TY	N/A			
150LBS SORF 12"			50	BLANK				BLANK				Magnetic Particle Examination			
BLANK												N/A			
												Remarks :			
												**CE = 0.37 (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 QA Dept. / S. H. LEE