

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 & 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													
033830		0.186	0.231	0.990	0.014	0.005	0.008	0.018	0.002	0.009	0.003	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							
Dia	Gage Length					min	min	Temp		Temp							
12.5	50	MAX				Test Result				187							
		MIN	250.000	485.000	22.000	30.000	①	②	③	Average							
12.5	50		334.000	533.000	36.000	61.000					152, 156		Ultrasonic Examination				
ITEM / SIZE		Q'TY		ITEM / SIZE		Q'TY		ITEM / SIZE		Q'TY		N/A					
150LBS THRF 3"		50		BLANK				BLANK				Magnetic Particle Examination					
BLANK												N/A					
												Remarks :					
												**CE = 0.36 (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