

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				
		0.350	0.350	1.050	0.035	0.040	0.400	0.300	0.120	0.400	0.080					
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	Dimensional Inspection				
	MIN		0.100	0.600												
05071K		0.201	0.296	1.050	0.014	0.006	0.013	0.031	0.002	0.007	0.005	ANSI B16.5 - 2009 GOOD				
Tension Test						Charpy Impact Test (10x10 mm Specimen Size)										
Size of Specimen(mm)		Yield Strength MPa	Tensile Strength MPa	Elongation %	Red of Area %	Individual		Average		Notch Type	Hardness Test (HB)	Bending Test 90:120(180°)	Ultrasonic Examination			
Dia	Gage Length					min	min	Temp								
12.5	50	MAX				Test Result				187	N/A					
		MIN	250.000	485.000	22.000	30.000	①	②	③	Average						
12.5	50		298.000	521.000	35.000	65.000					152, 155	Magnetic Particle Examination				
ITEM / SIZE			Q'TY	ITEM / SIZE			Q'TY	ITEM / SIZE			Q'TY	N/A				
150LBS WNRF STD 10"			36	BLANK				BLANK				Remarks :				
BLANK												**CE = 0.38 (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