

CERTIFICATE OF INSPECTION & TEST

ORIGINAL



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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)



CE
KPS PRO006/01

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				
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												
05072A		0.227	0.274	1.040	0.013	0.004	0.011	0.026	0.002	0.006	0.004	Dimensional Inspection				
Tension Test						Charpy Impact Test (10x10 mm Specimen Size)						Hardness Test (HB)		Bending Test 90:120(180°)		
Size of Specimen(mm)		Yield Strength MPa	Tensile Strength MPa	Elongation %	Red of Area %	Individual		Average		Notch Type		Temp	187	90:120(180°)	ANSI B16.5 - 2009 GOOD	
Dia	Gage Length					min	min									
12.5	50	MAX				Test Result				143, 148						
		MIN	250.000	485.000	22.000	30.000	①	②	③		Average					
12.5	50		295.000	524.000	36.000	59.000							Ultrasonic Examination			
ITEM / SIZE		Q'TY		ITEM / SIZE		Q'TY		ITEM / SIZE		Q'TY		N/A				
600LBS BLRF 4"		10		BLANK				BLANK				Magnetic Particle Examination				
300LBS BLRF 4"		20										N/A				
150LBS SORF 14"		10										Remarks :				
BLANK												**CE = 0.41 (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