

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
18508008/01

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 & 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											
03812F		0.174	0.230	0.990	0.012	0.006	0.008	0.030	0.003	0.010	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	GOOD	
Dia	Gage Length					min	min	Test Result		Average					
12.5	50	MAX										142, 144	ANSI B16.5 - 2009		
		MIN	250.000	485.000	22.000	30.000	①	②	③	Average					
12.5	50		288.000	503.000	38.000	68.000									
ITEM / SIZE		Q'TY		ITEM / SIZE		Q'TY		ITEM / SIZE		Q'TY		Ultrasonic Examination			
150LBS BLRF 18"		5		BLANK				BLANK				N/A			
BLANK												Magnetic Particle Examination			
												N/A			
												Remarks :			
												**CE = 0.35 (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.



Witnessed by / H. J. LEE Manager of Q.A Dept. / S. H. LEE