

# CERTIFICATE OF INSPECTION & TEST

ORIGINAL



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(EN 10204 3.1)

Certified to ISO9001:2008, PED97/23/EC by LRQA

Report No : MYM5925

Date: OCT.25.2010

Customer : PLESA ANAHUAC Y CIAS, SA DE CV AV.										Contract No. : 8863			Heat Treatment	
Spec. For Material : ASTM/ASME A/SA105-05(NACE MR-0175-03)														
Chemical Composition (%)		C	Si	Mn	P	S	Ni	Cr	Mo	Cu	V	Nb	AS FORGED	
Heat 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										
08091		0.203	0.206	0.750	0.010	0.002	0.024	0.007	0.004	0.017	0.001			
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
Dia	Gage Length					min	min							
12.5	50	MAX				Test Result				187				
		MIN	250.000	485.000	22.000	30.000	①	②	③				Average	Temp
12.5	50		360.000	549.000	31.000	66.000						137-149		
ITEM / SIZE			Q'TY		ITEM / SIZE			Q'TY		ITEM / SIZE			Q'TY	
150LBS BLRF 12"			15		150LBS WNRF XH 16"			30		<b>BLANK</b>				
150LBS BLRF 14"			5		<b>BLANK</b>									
150LBS BLRF 16"			5											
150LBS WNRF STD 12"			50											
150LBS WNRF STD 16"			30											

Dimensional Inspection

ANSI B16.5-2003

GOOD

Ultrasonic Examination

N/A

Magnaflux Examination

N/A

Remarks :

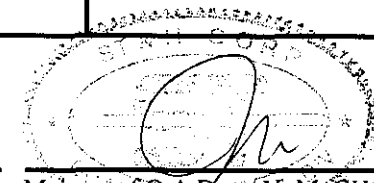
\*\*CE = 0.33 (LONG FORMULAR)

NOTE :  
1MPa = 145.037 psi  
1MPa = 0.145037 ksi  
1psi = 6894.76 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/ K. S. KIM



Manager of Q.A Dept./ Y. M. CHOI