

# 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)

CE  
IPS 05008 / 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											
03559J		0.216	0.169	1.030	0.011	0.004	0.014	0.049	0.002	0.010	0.036	Dimensional Inspection			
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					
Dia	Gage Length					min	min								
12.5	50	MAX				Test Result				187	Temp		GOOD		
		MIN	250.000	485.000	22.000	30.000	①	②	③						Average
12.5	50		320.000	524.000	34.000	61.000						149, 152	Ultrasonic Examination		
ITEM / SIZE		Q'TY	ITEM / SIZE		Q'TY	ITEM / SIZE		Q'TY	Remarks :						
150LBS WNRF STD 16"		20	BLANK			BLANK					**CE = 0.41 (LONG FORMULAR)				
600LBS WNRF S80 12"		10													
BLANK															

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