

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)

RPS 0160908 / 01

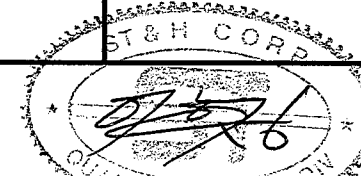
Customer : PLESA ANAHUAC Y CIAS.,S.A DE C.V.				Contract No. : 15090				Report No : MHJ7913				Date: APR.15.2013				
Spec. For Material : ASTM/ASME A/SA105N-11(NACE MR0175/ISO 15156-2009)												Heat Treatment				
Chemical Composition (%)		C	Si	Mn	P	S	Ni	Cr	Mo	Cu	V	N	910°C NORMALIZED & A.C			
Heat 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												
B7706.			0.180	0.180	0.930	0.015	0.012	0.017	0.014	0.032	0.020	0.001	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	ANSI B16.5 - 2009			
Dia	Gage Length					min	min									
12.5	50	MAX				Test Result				187	GOOD					
		MIN	250.000	485.000	22.000	30.000	①	②	③	Average						
12.5	50		290.000	520.000	33.500	67.000					145, 146	Ultrasonic Examination				
ITEM / SIZE		Q'TY	ITEM / SIZE		Q'TY	ITEM / SIZE		Q'TY	N/A							
150LBS SORF 14"		5	150LBS WNRF S80 6"		100	600LBS WNRF STD 8"		30			Magnetic Particle Examination					
150LBS SORF 5"		50	300LBS WNRF STD 4"		50	BLANK			N/A							
600LBS SORF 8"		5	300LBS WNRF S80 6"		20						Remarks : **CE = 0.35 (LONG FORMULAR)					
150LBS WNRF STD 14"		5	300LBS WNRF STD 8"		20											
150LBS WNRF STD 5"		50	600LBS WNRF STD 10"		10											

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/ K. S. KIM



Manage of Q.A Dept/ H. J. LEE