



CERTIFICATE OF INSPECTION & TEST

ORIGINAL



ST&H CORPORATION
 74, Jwadongsunhwan-ro, Haeundae-gu, Busan, Korea
 Tel:82.51.744-4680(5 line) Fax:82.51.744-4670
 E-mail : stnh@stnhcorp.com

(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

RPS 0160200 / 01

Customer : PLESA ANAHUAC Y CIAS.,S.A DE C.V.				Contract No. : 18529				Report No : MES8670				Date: JUL.24.2014			
Spec. For Material : ASTM/ASME A/SA105N-11a(NACE MR0175/ISO15156-2009)												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	Dimensional Inspection			
	MIN		0.100	0.600											
B5906		0.230	0.220	1.000	0.009	0.008	0.018	0.025	0.041	0.007	0.005	ASME B16.5 - 2009 GOOD			
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	Temp							
12.5	50	MAX				Test Result				187	Ultrasonic Examination				
		MIN	250.000	485.000	22.000	30.000	①	②	③	Average					
12.5	50		410.000	560.000	35.000	71.500					141, 144	N/A			
ITEM / SIZE		Q'TY	ITEM / SIZE		Q'TY	ITEM / SIZE		Q'TY	Magnetic Particle Examination						
600LBS WNRF STD 8"		20	BLANK			BLANK			N/A						
600LBS WNRF S80 8"		20							Remarks :						
300LBS SORF 3"		50							**CE = 0.41 (LONG FORMULAR)						
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 QA Dept. S. PARK

