

# INSPECTION CERTIFICATE



S/YB13-018

Customer/PO		大達永宝特钢工具有限公司	
Article	HOT ROLLED COIL	Heat No.	1141109 [mm]
Order No.	W114982-001	Size	5.500 [inch]
Steel Grade	HM42	Pieces	1 [PCS]
Lot No.	1403196441-00	Weight	449.000 [Lbs]
Certificate No.	C0037885-01		
Date	18/03/2014		
Condition	A		

Items	Units	Specification		Results	Items	Units	Specification		Results
		Min	Max				Min	Max	
[Chemical Composition]					[Dimension]				
C	%	1.05	1.15	1.06	Di (Min)	MM	5.300	5.700	5.500
Si	%	0.20	0.50	0.35	Di (Max)	MM	5.300	5.700	5.560
Mn	%	0.20	0.40	0.24	[Appearance/metallographic]				
P	%	-	0.022	0.018	Appearance				GOOD
S	%	-	0.005	0.001	Micro Structure				GOOD
Cr	%	3.70	4.20	3.84	Decarburization	MM		0.10	0.03
Mo	%	9.25	10.00	9.47	[Mechanical Properties]				
W	%	1.30	1.75	1.39	[Hardness Test]				
V	%	1.10	1.35	1.17	Body Hardness (Max)	HV		279	243
Co	%	7.75	8.50	7.99					
O	ppm	-	20	18					
N	ppm	-	180	137					
H	ppm	-	5	1.0					

It is hereby certified that the above results are true and correct in every detail.

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NACHI-FUJIKOSHI CORP.  
 MATERIAL PRODUCTION PLANT  
 Chief Inspector

*S. Nomura*