

## TEST CERTIFICATE

This is to certify that the nominated size and quality of the following product has been inspected and tested with following results.



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**Customer Sold To:**  
 HESNZ  
 3 Heb Place  
 Takanini, Auckland, New Zealand

<b>Order:</b>	4046, 3865
<b>Invoice:</b>	23303, 23263
<b>Date:</b>	9/10/2018
<b>Certificate No:</b>	170815/180124HESNZ

**GOODS:** GRADE S SHACKLES & FEDERAL SIZES ABOVE 35T  
**SURFACE:** HDG BODY & YELLOW PIN

SIZE:	WLL	REQUIRED	ACTUAL		BATCH ID
	TON	BS (TON)	AVERAGE		
BOW TYPE	0.33	1.98	3.0		D115
	0.5	3	4.0		D115
	0.75	4.5	5.6		D114/5
	1	6	8.2		D114
	1.5	9	10.8		D115
	3.25	19.5	22.5		D115
	6.5	39	42		D115
	12	72	75		D115
	13.5	81	83		D115
BOW SAFETY	1.5	9	10.8		D108/115
	2	12	14.5		D114
	3.25	19.5	22.5		D114/5
	4.75	28.5	32.5		D114
	6.5	39	42		D115
	9.5	57	58		D115
	13.5	81	83		D115
	17	102	106		D115/116
DEE TYPE	2	12	15		D115
	4.75	28.5	33		D115

**CHEMICAL COMPOSITION** BODY: Chinese #45

ELEMENTS	C	Si	Mn	S	P	Cr	Al
REQUIRED	0.42-0.50	0.17-0.37	0.50-0.80	<0.035	<0.035	<0.25	0.025
ACTUAL	0.45	0.25	0.65	0.02	0.02	0.17	0.025

**CHEMICAL COMPOSITION** PIN: Chinese #40Cr

ELEMENTS	C	Si	Mn	S	P	Cr	Al
REQUIRED	0.37-0.45	0.17-0.37	0.50-0.80	<0.03	<0.03	0.80-1.10	0.025
ACTUAL	0.4	0.25	0.65	0.02	0.02	1	0.025

We hereby certify the above test is true and correct. All shackles are tested as per AS2741.

42 Clements Avenue Bundoora Vic Aust  
Bundoora Victoria 3083 Australia  
Phone + 61 3 94667840



**Manufactured, Inspected and Tested for and on behalf of:**

42 Clements Avenue Bundoora Vic Aust  
Bundoora Victoria 3083 Australia

