

TEST CERTIFICATE

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



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

Order:	5851, 5883
Invoice:	43376, 43375
Date:	17/11/2023
Certificate No:	230403HESNZ 230516HESNZ

GOODS: GRADE S SHACKLES
SURFACE: HDG BODY & YELLOW PIN

SIZE:	WLL	REQUIRED	ACTUAL	BATCH ID
	TON	BS (TON)	AVERAGE	
BOW TYPE	0.5	3	3.6	D206
	0.75	4.5	5.0	D205
	1	6	6.5	D201/3
	1.5	9	9.5	D203
	2	12	13.0	D203/6
	3.25	19.5	20.0	D203/5
	4.75	28.5	32.5	D205
	6.5	39	40	D203
	8.5	51	53	D203
	9.5	57	58	D202
	17	102	103	D203
	35	210	214	D202
BOW SAFETY	12	72	73	D201
	13.5	81	82	D118/202
DEE TYPE	2	12	15	D205
	3.25	19.5	23	D205
	4.75	28.5	33	D203
	6.5	39	43	D201
	8.5	51	53	D205

TRAILER SHACKLE DEE TYPE

SIZE:	WLL	REQUIRED	ACTUAL	BATCH ID
	TON	BS (TON)	AVERAGE	
2.5T	2.5	7.5	8.6, 8.8	AMG09/10

All shackles are tested as per samples by HESNZ.

SIZE:	WLL	REQUIRED	ACTUAL	BATCH ID
	TON	BS (TON)	AVERAGE	
2.5T	2.5	7.5	8.6, 8.8	AMG09/10

All shackles are tested as per samples by HESNZ.

CHEMICAL COMPOSITION BODY: Chinese #45

ELEMENTS	C	Si	Mn	S	P	Al
REQUIRED	<0.45	0.17-0.37	0.50-0.80	<0.03	<0.03	>0.025
ACTUAL	0.43	0.25	0.65	0.02	0.02	0.025

CHEMICAL COMPOSITION PIN: Chinese #CM690

ELEMENTS	C	Si	Mn	S	P	Al
REQUIRED	<0.45	0.15-0.55	1.3-1.9	<0.03	<0.03	>0.025
ACTUAL	0.29	0.22	1.7	0.003	0.017	0.043

Heat Treatment: Hardened & Tempered.

HARDNESS(required not more than HRC32):

BODY(actual HRC): 29, 28, 30, 28, 29, 28, 29, 30, 28, 29

PIN(actual HRC): 31, 32, 31, 30, 32, 31, 31, 30, 31, 32

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

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