

Certificate No:

QYJ130122/130323HESNZ

This is to certify that the nominated size and quality of the following product has been inspected and tested in accordance with the Chemical/Material Composition below.

MATERIAL CERTIFICATE

Product Description:

BS464 Thimbles, Commercial Shackles, Turnbuckles, and Wire Rope Grips

tion:

Customer Issued To:

HES NZ Ltd  
56 Pavillion Drive  
Airport Oaks Auckland 2022

Order Number:

392, 393 & 488

ITEMS: FORGED GRIPS #45

CHEMICAL COMPOSITION Chinese Q235

| ELEMENTS | C         | Si        | Mn        | S      |        | C     | N     |
|----------|-----------|-----------|-----------|--------|--------|-------|-------|
| REQUIRED | 0.42-0.50 | 0.17-0.37 | 0.50-0.80 | <0.035 | <0.035 | <0.25 | <0.25 |
| ACTUAL   | 0.18      | 0.25      | 0.65      | 0.02   | 0.02   | 0.17  | 0.17  |

ITEMS: THIMBLES BS464, COMMERCIAL SHACKLES/TURNBUCKLE, U BOLTS FOR GRIPS

CHEMICAL COMPOSITION Chinese #Q235

| ELEMENTS | C          | Si        | Mn        | S     | P      |
|----------|------------|-----------|-----------|-------|--------|
| REQUIRED | 0.14-0.208 | 0.17-0.30 | 0.30-0.65 | <0.05 | <0.045 |
| ACTUAL   | 0.18       | 0.25      | 0.55      | 0.03  | 0.025  |

ITEMS: CASTING GRIPS DIN741 BODY

CHEMICAL COMPOSITION Chinese KT32510

| ELEMENTS | C       | Si    | Mn       | S     | P    |
|----------|---------|-------|----------|-------|------|
| REQUIRED | 2.2-2.8 | 1-1.8 | 0.30-0.8 | <0.02 | <0.1 |
| ACTUAL   | 2.5     | 1.5   | 0.6      | 0.018 | 0.08 |

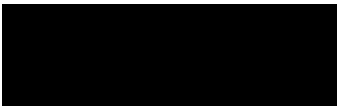
Authorised Signatory



Date:

18/5/2013

Manufactured and inspected for and on behalf of



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