

Anm: Dette sertifikatet inneholder opplysninger som er i samsvar med de opplysninger som er påkrevd av ILO konvensjon nr.152

Note: This certificate contains information that is consistent with the information required by ILO Convention nr.152



SERTIFISERING - INSPEKSJON - NDT - SALG - UTLIE  
WWW.REDKON.NO - TEL: 61485000 - POST@REDKON.NO

Kunde/Client: Redkon AS

Sertifikat nr./Certificate no. : RED-213371

For prøving og undersøkelse av kjettinger, ringer, kroker, sjakler, svivler, blokker og andre løfteredskaper.

For testing and thorough examination of chains, rings, hooks, shackles, swivels, pulley blocks and other lifting accessories.

FORM 4

| ID. Kjenningnr. eller merke / Distinguishing number or mark | Beskrivelse av utstyr / Description of gear                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       | Antall / Number | Dato for prøve / Date of test | Prøvelast (tonn) / Proof Load (tonnes) | WLL (tonn) / WLL (tonnes) |
|-------------------------------------------------------------|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-----------------|-------------------------------|----------------------------------------|---------------------------|
| <b>MCK7037 &amp; MCK7038</b>                                | <b>Chainsling 4-Leg 16mm WLL.16,8t - DNV 2.7-1</b><br><br>Serienr./Serial No/Batch: MCK7037 & MCK7038<br>Produsent/Producer: McKinnon Chain<br>Prod. år/year: 2018<br>Prod. iht./acc. to: DNV 2.7-1 / NS-EN 818-4 / EN 1677<br>Arb.vinkel/Sling leg ang. : 30°<br>Diameter/Diameter : 16 mm<br>Lengde / Length : 3000 mm<br>Material : Grade 80<br>Enhancement factor/Enhancement factor : 1.23<br>Antall/Quantity : 2<br><br>Ref.<br>William Hackett EC Decl. of Conformity no L053299/1<br>McKinnon Chain Inspection Certificate CS18 4648<br><br>Testet av produsent / Tested by manufacturer. | *               | *                             | *                                      | 16,8t                     |

Ble redskapene undersøkt av en sakkyndig virksomhet etter prøvebelastningen og funnet å ha utholdt belastningen uten deformasjon og å være fri for brudd, brist eller andre feil? / Was the above gear examined by a competent person and found to have withstood the proof load without damage or deformation, and no fraction, cracks etc detected?

Ja/Yes

Navn og adresse til fabrikanten eller forhandleren / Name and address of manufacturer or distributor

William Hackett

Navn og adresse på den sakkyndige virksomhet, som utførte prøven og undersøkelsen / Name and address of manufacturer, company, association or distributor that performed the test and examination

Redkon AS  
Kontinentalveien 10  
4056 TANANGER  
Norway

Den ansvarshavendes navn og stilling i ovennevnte Institusjon, sakkyndig virksomhet som utførte prøven og undersøkelsen / Position of signatory that performed test and examination

Øyvind Jacobsen  
Fag Leder

Undertegnede attesterer at ovennevnte Innretning med tilbehør er prøvebelastet som angitt ovenfor etter bestemmelsene i «Forskrift 1360 Forskrift om administrative ordninger», at prøven ble utført under oppsyn av en sakkyndig virksomhet, at en grundig undersøkelse av innretningen med tilbehør utført av en sakkyndig virksomhet, viste at den hadde utholdt prøven uten å ha fått skade eller permanente formforandringer, og at den tillatte arbeidsbelastningen av innretningen er som angitt over.

The signatory confirms that the above mentioned lifting appliance(s) with accessories was tested in accordance with the regulations given in "Forskrift 1360 Forskrift om administrative ordninger", and that the load test was carried out under supervision of Sakkyndig Virksomhet(authorised company) and found to have withstood the proof load without damage or deformation, and no fraction, cracks etc. detected, and that the safeworking for the lifting appliance / device is as shown above.

12.12.2018

Øyvind Jacobsen, Fag Leder



# William Hackett

## Lifting Products Limited



### Delivery Address

REDKON AS  
KONTINENTALVEIEN 10  
4056 TANANGER  
NORWAY

Supplied To: RED004

Certificate Number: L053299/1

Customer Order No: 68

Date Received: 15/11/2018

PRODUCTS REQUIRING A DECLARATION OF CONFORMITY

ARE INDICATED BY (A)

THOSE REQUIRING JUST A MANUFACTURER'S

CERTIFICATE BY (B)

Authorised person for the configuration of the declaration documents: Tim Burgess, William Hackett Lifting Products, Alnwick, UK

| A/B | Batch  | Lot No / Serial No | Product              | Description                                              | Qty | Working Load Limit       | Proof Load | Min Breaking Load |
|-----|--------|--------------------|----------------------|----------------------------------------------------------|-----|--------------------------|------------|-------------------|
| A   | Q61093 | MCK7037-38         | HNW16.43016.93<br>00 | 16mm Four Leg, 3 meter Grade 8 Chain Sling to DNV2.7-1   | 2   | 16.9T @ 30° To Vertical  |            |                   |
| A   | Q61093 | MCK7270-71         | HNW16.43016.94<br>00 | 16mm Four Leg, 4 meter Grade 8 Chain Sling to DNV2.7-1   | 2   | 16.9T @ 30° To Vertical  |            |                   |
| A   | Q61093 | MCK7042-46         | HNW16.43016.94<br>00 | 16mm Four Leg, 4 meter Grade 8 Chain Sling to DNV2.7-1   | 5   | 16.9T @ 30° To Vertical  |            |                   |
| A   | Q61093 | MCK7272-73         | HNW16.43016.95<br>50 | 16mm Four Leg, 5.5 meter Grade 8 Chain Sling to DNV2.7-1 | 2   | 16.9 T @ 30° To Vertical |            |                   |

### DUAL PURPOSE DOCUMENT

#### EC DECLARATION OF CONFORMITY

#### DECLARATION

I DECLARE THAT THE ITEMS DESCRIBED ON THIS DOCUMENT COMPLY WITH THE REQUIREMENTS OF THE MACHINERY DIRECTIVE 2006/42/EC

#### MANUFACTURER'S CERTIFICATE

CERTIFIED ON BEHALF OF THE COMPANY

*Tim Burgess*

T.J. BURGESS

15/11/2018

OAK DRIVE, LIONHEART ENTERPRISE PARK, ALNWICK, NORTHUMBERLAND NE66 2EU

Tel. + 44 (0) 1665 604200 Fax. + 44 (0) 1665 604204 Email: info@williamhackett.co.uk

Website: www.williamhackett.co.uk Co. Registration No. 09679580 VAT Reg. No. 217 3508 23

061093



# INSPECTION CERTIFICATE

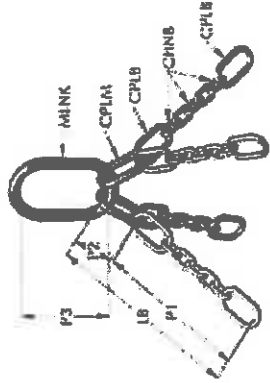
acc To EN 10204 3.1

## TYPE APPROVED CHAIN SLINGS FOR OFFSHORE CONTAINERS

**McKinnon Chain**  
161 A Ring Road Durbanville  
Versovelding South Africa  
PO Box 61/21 Marshalltown  
Gauteng, 2107, South Africa  
Tel: +27 16 428-6000  
Fax: +27 16 428-1089/1127/1420  
E mail: chain@scaw.co.za  
Website: www.scawinc.co.za

|                    |                                                           |                  |             |                      |                 |
|--------------------|-----------------------------------------------------------|------------------|-------------|----------------------|-----------------|
| Certificate Date   | 2018/11/27                                                | Manufacture Date | August 2018 | Cert no.             | CS18 4649       |
| Supplied To        | William Hackett Lifting Products                          |                  |             |                      |                 |
| Customer Order No. | 601368                                                    | Order Date       | 2018/11/09  |                      |                 |
| McKinnon Order No. | 864186                                                    | Ship Date        | 2018/11/27  |                      |                 |
| Commodity No.      | OSMDNV430189400NREV1                                      | Quantity         | 5 Each      | Serial No.           | MCK7042-MCK7046 |
| Description        | 16 mm Grade 80 4-Legged Off-shore Container Lifting Sling |                  |             |                      |                 |
| Working Load Limit | 16.9                                                      | (t) at           | 30          | (to vertical max) or |                 |
| Enhancement Factor | 1.23                                                      |                  |             | Reach LB (mm)        | 4000 (+96 -4)   |

| Sling Components |                  |
|------------------|------------------|
| Component        | Dimensions       |
| MLNK             | 36 X 140 X 270   |
| CPLM             | 26 X 60 X 130    |
| CHNB             | 16 X 22 X 4 X 48 |
| CPLB             | 20 X 50 X 110    |



**Markings:** refer to tag

**Notes:**

Working Load Limit= Maximum Gross Container Mass

This certificate refers to EN 818-2 and 818-4 for the chain and EN 1677-1, 2, 3, 4 for the components used in the sling assembly

The lifting set has been designed, approved, tested and certified in accordance with the following specifications / standards:

DNV Standard for Certification No 2-7-1 "Offshore Containers" (June 2013) and ISO 10855

This certificate is based on DNV type approval no TAS0000013X

### Declaration of Conformity:

Declaration of incorporation of partly manufactured machinery refer to Directive 2006/42/EC, Annex II 1 A

Assembling instruction refer to the relevant European standard, Directive 2006/48/EC. We declare that the products as specified in this certificate, fulfils the applicable essential Health and Safety requirements of the Machinery Directive, 2006/42/EC

ISO 9001:2015 approved by SGS (Certificate 2A17209970) - Address: Harrowdene Office Park, Building 1, Western Service Road, Woodmead, Johannesburg, 2161, RSA

Prior treatment of sling. This certificate is only applicable to goods properly used in the condition supplied by McKinnon Chain a division of Scaw South Africa (PTY) Ltd. Further processing by, or on behalf of, the user (involving: Cold Working, Heating, Electroplating, Hot-dip Galvanizing or other treatments) is entirely the User's responsibility and invalidates. This Certificate is invalidated by any alterations and/or deletion

| CHEMICAL ANALYSIS OF STEEL |         |      |       |       |      |       |      |      |      |  |  |
|----------------------------|---------|------|-------|-------|------|-------|------|------|------|--|--|
| Sling Component            | Cast No | C    | P     | S     | Si   | Al    | Cr   | Ni   | Mo   |  |  |
| MLNK                       | 1703276 | 0.22 | 0.020 | 0.004 | 0.20 | 0.034 | 0.50 | 0.55 | 0.26 |  |  |
| CPLM                       | 1802886 | 0.22 | 0.015 | 0.003 | 0.23 | 0.033 | 0.50 | 0.98 | 0.31 |  |  |
| CHNB                       | 1801290 | 0.22 | 0.018 | 0.003 | 0.21 | 0.033 | 0.52 | 0.98 | 0.30 |  |  |
| CPLB                       | 1703273 | 0.23 | 0.015 | 0.006 | 0.22 | 0.053 | 0.49 | 0.52 | 0.28 |  |  |

| IMPACT RESISTANCE (Charpy V-Notch Joule) |                 |          |          |          |         | Test Temp     |                  |
|------------------------------------------|-----------------|----------|----------|----------|---------|---------------|------------------|
| Sling Component                          | Charpy Test Ref | Charpy 1 | Charpy 2 | Charpy 3 | Average | Location      | Required min ave |
| MLNK                                     | 1703276-0509    | 46 /     | 47 /     | 47 /     | 46.7 /  | Parent / Weld | 421 / 27J        |
| CPLM                                     | 1802886-0509    | 64 /     | 62 /     | 85 /     | 63.7 /  | Parent / Weld | 421 / 27J        |
| CHNB                                     | 1801290-0809    | 69 /     | 56 /     | 72 /     | 65.7 /  | Parent / Weld | 421 / 27J        |
| CPLB                                     | 1703273-0709    | 60 /     | 63 /     | 59 /     | 60.7 /  | Parent / Weld | 421 / 27J        |

| MECHANICAL PROPERTIES |         |       |       |       |       |                |       |                    |       |          |
|-----------------------|---------|-------|-------|-------|-------|----------------|-------|--------------------|-------|----------|
| Sling Component       | Cast No | PF kN |       | BF kN |       | Elongation (%) |       | Bend Deflection mm |       | Hardness |
|                       |         | Act   | Req'd | Act   | Req'd | Act            | Req'd | Act                | Req'd |          |
| MLNK                  | 1703276 | > 510 | 510   | 1,548 | 816   | ≥20            | 20    | > 29               | 29    | 37       |
|                       |         |       |       |       |       |                |       |                    |       |          |
|                       |         |       |       |       |       |                |       |                    |       |          |
| CPLM                  | 1802886 | > 295 | 295   | 741   | 472   | ≥20            | 20    | > 21               | 21    | 36       |
| CHNB                  | 1801290 | > 201 | 201   | 327   | 322   | ≥20            | 20    | > 13               | 13    | 36       |
| CPLB                  | 1703273 | > 197 | 197   | 498   | 315   | ≥20            | 20    | > 16               | 16    | 36       |

**Crack Detection (NDT):** Magneto Particle Inspection - No Defects Found

Technical file compiled and certificate signed off by Z. Mudau (Quality Assurance Manager)

Company Representative: G. Katigarakos (General Manager - McKinnon Chain a division of Scaw South Africa (PTY) Ltd)

| Authorized Person | Z. Mudau (QA Manager) | Signature | 2018/11/27 |
|-------------------|-----------------------|-----------|------------|
|-------------------|-----------------------|-----------|------------|

Anm: Dette sertifikatet inneholder opplysninger som er i samsvar med de opplysninger som er påkrevd av ILO konvensjon nr.152

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SERTIFISERING INSPEKSJON NDT - SALG - UTLEIE  
WWW.REDKON.NO TEL: 66640668 POST: REDKON@REDKON.NO

Kunde/Client: **BLUE MANTA AS**

Sertifikat nr./Certificate no. : **RED-213372**

**For prøving og undersøkelse av kjettinger, ringer, kroker, sjakler, svivler, blokker og andre løfteredskaper.**

**For testing and thorough examination of chains, rings, hooks, shackles, swivels, pulley blocks and other lifting accessories.**



Ordrenr/Order No: 1191 Kundens ordrenr/Customer Order No: 0217

**FORM 4**

| ID. Kjenningnr. eller merke / Distinguishing number or mark | Beskrivelse av utstyr / Description of gear                                                                                                                                                                                                                                                                                                                                                 | Antall / Number | Dato for prøve / Date of test | Prøvelast (tonn) / ProofLoad (tonnes) | WLL (tonn) / WLL (tonnes) |
|-------------------------------------------------------------|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-----------------|-------------------------------|---------------------------------------|---------------------------|
| <b>ZIO-10021</b>                                            | <b>H-Shackle Anja Offshore 856 WLL.8,5t</b><br>Serienr./Serial No/Batch: ZIO-10021<br>Produsent/Producer: Gunnebo Anja Industrier AS<br>Prod. lht./acc. to: NS-EN-13889/US Fed Spec RR-C-271<br>Antall/Quantity : 8<br><br>Ref.<br>Cortex Norge AS Decl of Conformity no. 0000479004/030/2018<br><br>Testet av produsent i serieproduksjon /<br>Tested by manufacturer in serial production | 8               | *                             | *                                     | 8,5                       |

Ble redskapene undersøkt av en sakkyndig virksomhet etter prøvebelastningen og funnet å ha utholdt belastningen uten deformasjon og å være fri for brudd, brist eller andre feil? / Was the above gear examined by a competent person and found to have withstood the proof load without damage or deformation, and no fraction, cracks etc detected?

Ja/Yes

Navn og adresse til fabrikanten eller forhandleren / Name and address of manufacturer or distributor

Gunnebo Anja Industrier AS

Navn og adresse på den sakkyndige virksomhet, som utførte prøven og undersøkelsen / Name and address of manufacturer, company, association or distributor that performed the test and examination

Redkon AS  
Kontinentalveien 10  
4056 TANANGER  
Norway

Den ansvarshavendes navn og stilling i ovennevnte institusjon, sakkyndig virksomhet som utførte prøven og undersøkelsen / Position of signatory that performed test and examination

Øyvind Jacobsen  
Fag Leder

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12.12.2018

Øyvind Jacobsen, Fag Leder



Nr/No: 0000479004/030/2018

*Produkt Sertifikat / Product Certificate*

Ordrenr/Order No: 0000479004 Kundens ordrenr/Customer Order No: 1191

**Kjenningsnr. eller merke/Distinguishing mark**

ZIO-10021

Antall/Number: 8

**Beskrivelse av utstyr/Description of equipment**

**SJAKKEL OFFSHORE 8,50T ihht. DNV 2.7-1**

Produsent/Producer:

Gunnebo Anja Industrier AS

Prod. iht./acc. to:

NS-EN-13889/US Fed Spec RR-C-271

Teknisk ansvarlig/Responsible Technical

Gunnebo Anja Industrier AS, 5282 Lonevåg, Norway

Aktuelle produkter leveres i samsvar med helse og sikkerhetsforskriftene i Maskindirektivet 2006/42EC Best.nr.522,vedlegg 1  
Actual products comply with the health and safety requirements of the Machinery Directive 2006/42EC Best.nr.522,annex 1

Sted og dato/Place and Date:

Follestad, 12.12.2018

Sign.

Harald A. Hope, Managing Director