

Norsk oversettelse

SAMSVARSERKLÆRING

Redkon AS. Baserer denne oversettelsen på den originale samsvarserklæringen fra
MCKinnon Chain / Scaw Metal Groups

PRODUKTNAMN/PRODUCT NAME	Kjettingsling
TYPE	4-Part 13mm, Grade 80, 2000mm
WLL	WLL 8,7T
SERIENUMMER/SERIAL NUMBER	MCK11521 tom MCK11532
ANTALL/QUANTITY	12
PRODUKSJONSÅR/MANUFACTURE YEAR.	2020

Som dekkes av denne erklæringen, er overensstemmelse:

Forskrift om maskiner-FOR-2009-05-20-544

Produksjon og design er i overensstemmelse med følgende standard(er):

- **EN 818-2**
- **EN 818-4**
- **EN 1677-1,2,3,4**
- **ISO 10855-2**
- **Type godkjent DNVGL-ST-E271 ref. Godkjenningnummer: TAS00001RH**

- Utstedelsessted og dato: Tananger 12.10.2020
- Ansvarlig signatur:



Øyvind Jacobsen
Technical Manager



GUNNEBO
LIFTING

Cert.no: ATO-10223



Gunnebo-Anja Industrier AS

Osterøyvegen 1328

5282 Lonevåg

Inspection certificate Acc EN 10204 - 3.1

GL Form. TA 1-1

REV 2 - 18.12.2017

Identification	Bow	Bolt	
	ATO	10223	
Safety factor	8,0	WLL 4,75 ton (metric ton)	

Object	SHACKLES GUNNEBO LIFTING ARCTIC NO 856 WLL 4,75 T
Article no	A085619
Size	3/4" x 7/8"
EU Standard	NS-EN 13889 / DNV GL Type Approval Certificate No TAS00001B8
US Standard	
Finish	All parts hot dip galvanized. Bolt and shackle eyes painted.
Material Quality	Special Alloy Steel, Quenched and Tempered
Grade	8

STEEL INFORMATION

Item	Charge	Dim	Marking	Chemical Composition										A	R _e	R _m
				C	Si	Mn	P	S	Cr	Mo	Ni	Al	B	%	N/mm ²	N/mm ²
Bow	31453	27	ATO	0,21	0,23	1,08	0,090	0,010	0,45	0,05	0,43	0,031	0,0030	16,2	875	930
Bolt	36217		10223	0,43	0,16	0,79	0,010	0,025	1,10	0,17	0,10			14,3	979	1097

TEST REQUIREMENTS

Item	Charpy ISO-V (J) Temp: - 40°C	Min. Proof Load (t)	Min. Breaking Load (t)	Date	Remarks
Bow	51/65/63	9,5	38	05.07.2018	<i>A = Elongation R_e = Yieldpoint R_m = Tensile Strength</i>
Bolt	85/86/88	9,5	38	05.07.2018	

EC declaration of incorporation

We declare that delivered CE-marked products conform to 2006/42/EC.

05.07.2018

QA Manager

Audun Seilen

(Sign. / stamp)



GUNNEBO
LIFTING

Cert.no: DEO-12865



Gunnebo-Anja Industrier AS

Osterøyvegen 1328
5282 Lonevåg

Inspection certificate Acc EN 10204 - 3.1

GL Form. TA 1-1
REV 3 - 18.09.2019

Identification	Bow	Bolt	
	DEO	12865	
Safety factor	8,0	WLL 4,75 ton (metric ton)	

Object	SHACKLES GUNNEBO LIFTING ARCTIC NO 856 WLL 4,75 T
Article no	A085619
Size	3/4" x 7/8"
EU Standard	NS-EN 13889 / DNV GL Type Approval Certificate No TAS00001B8
US Standard	
Finish	All parts hot dip galvanized. Bolt and shackle eyes painted.
Material Quality	Special Alloy Steel, Quenched and Tempered
Grade	8

STEEL INFORMATION

Item	Charge	Dim	Marking	Chemical Composition										A	R _e	R _m
				C	Si	Mn	P	S	Cr	Mo	Ni	Al	B	%	N/mm ²	N/mm ²
Bow	39194	27	DEO	0,21	0,24	1,08	0,009	0,014	0,45	0,12	0,44		0,0036	15,4	931	981
Bolt	157635		12865	0,42	0,18	0,74	0,006	0,024	1,12	0,16	0,03			14,8	903	1000

TEST REQUIREMENTS

Item	Charpy ISO-V (J) Temp: - 40°C	Min. Proof Load (t)	Min. Breaking Load (t)	Date	Remarks
Bow	58/52/59	9,5	38	09.07.2021	A = Elongation R _e = Yieldpoint R _m = Tensile Strength
Bolt	68/80/72	9,5	38	09.07.2021	

EC declaration of conformity

We declare that delivered CE-marked products conform to 2006/42/EC.

09.07.2021

QA Manager

Audun Seilen

(Sign. / stamp)



McKinnon Chain



INSPECTION CERTIFICATE

acc. To EN 10204 3.1 & ISO 10474 3.1

061617

TYPE APPROVED CHAIN SLINGS FOR OFFSHORE CONTAINERS

McKinnon Chain
161 A Ring Road Durbanville
Vereniging South Africa
PO Box 61721 Marshalltown
Gauteng, 2107, South Africa
Tel: +27 16 428-6000
E-mail: chainsec@scaw.co.za
WebSite: www.scawmetals.com

2.7-1=2.7-3

Certificate Date	2020/08/13	Manufacture Date	2020/05/01	Cert no.	CS20 4840
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Supplied To	William Hackett Lifting Products				
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Customer Order No.	602097	Order Date	2020/07/06		
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McKinnon Order No.	928404	Ship Date	2020/08/12		
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Commodity No	OSWDNV430087200ZTB	Quantity	60 Each	Serial No.	MCK11462-MCK11508, MCK11515; 521-532
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Description	13 mm Grade 80 4-Legged Off-shore Container Lifting Sling				
	Batch No.	20E9607-09, 20F9770-74,76	Drawing No.	OSWDNV430087200ZTB	

Working Load Limit	8.7	(t) at	30	° (to vertical max) or	60	° (included angle)
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Enhancement Factor	1.59	Reach LB (mm)	2000 (+78 -0)		
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Sling Components

Component	Bill Of Material	Dimensions
MLNK	OML280DNV	28 X 140 X 270
CPLM	IML200DNV	20 X 50 X 110
CHNB	C8A130SLCDNV	13 X 18.2 X 39
CPLB	IML160DNV	16 X 40 X 100

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 GL Standard for Certification No. DNVGL-ST-E271 - 2.7-1 Offshore containers (August 2017) and ISO 10853.

This certificate is based on DNV type approval no. TAS00001RH.

Zinc Thermal Diffusion in accordance with BS EN ISO 17668:2016/SANS 5381.1, SABS permit no.8009/12763.

Complies with Explosive Atmosphere standards ISO 80079-36/37 for Non-Sparking, codes Ex h I Mb, Ex h IIC GB & Ex h IIIC Db.

Declaration of Conformity:

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

Assembling instruction refer to the relevant European standard, Directive 2006/46/EG. We declare that the products as specified in this certificate, fulfil the applicable essential Health and Safety requirements of the Machinery Directive, 2006/42/EC.

After treatment of sling: This certificate is only appl cable 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 and the manufacturer's product warranty obligations. This Certificate is invalidated by any alterations and/or deletion.

CHEMICAL ANALYSIS OF STEEL

Sling Component	Cast No.	C	P	S	SI	AI	Cr	NI	Mo
MLNK	1903021	0.23	0.008	0.003	0.25	0.036	0.50	0.99	0.31
CPLM	1906647	0.21	0.013	0.006	0.23	0.038	0.51	0.99	0.30
CHNB	1906643	0.21	0.020	0.005	0.25	0.025	0.51	0.98	0.30
CPLB	1906649	0.22	0.013	0.006	0.24	0.030	0.51	0.97	0.30

IMPACT RESISTANCE (Charpy V-Notch Joule)

Sling Component	Charpy Test Ref	Charpy 1	Charpy 2	Charpy 3	Average	Location	Test Temp.
MLNK	1903021-1002	56 /	66 /	68 /	63.3 /	Parent / Weld	-20 °C
CPLM	1906647-2002	50 /	62 /	92 /	68.0 /	Parent / Weld	42J / 27J
CHNB	1906643-2002	114 /	98 /	124 /	112.0 /	Parent / Weld	42J / 27J
CPLB	1906649-1002	142 /	148 /	144 /	144.7 /	Parent / Weld	42J / 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	1903021	> 339	339	1,032	542	≥20	20	> 22	22	37
CPLM	1906647	> 131	131	507	209	≥20	20	> 16	16	37
CHNB	1906643	> 133	133	219	212	≥20	20	> 10	10	36
CPLB	1906649	> 131	131	329	209	≥20	20	> 13	13	37

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

Zinc Thermal Diffusion: Average ≥ 45 μ thickness

ISO 9001:2015 approval by SGS (Certificate ZA17209870) - Address: Harrowdene Office Park, Building 1, Western Service Road, Woodmead, Johannesburg, 2191, RSA

Technical file compiled by the Technical department and certificate signed off by M. Human (Export Manager)

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

Authorized Person	M. Human (Export Manager)	Signature	2020/08/13
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Note: This certificate contains information that is consistent with the information required by ILO Convention nr.152

SERTIFISERING • INSPEKSJON • NDT • SALG • UTLEIE
WWW.REDKON.NO • TLF: 958 88 008 • POST@REDKON.NO

Kunde/Client: Redkon AS

Sertifikat nr./Certificate no.: RED-242477

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) / ProofLoad (tonnes)	WLL (tonn) / WLL (tonnes)
MCK11521 to MCK11532	Chainsling 4-Leg 13mm Grade 80 WLL.8,7t v/30° - DNV 2.7-1 Serienr./Serial No/Batch: MCK11521 to MCK11532 Produsent/Producer: McKinnon Chain Prod. år/year: 2020 Prod. iht./acc. to: DNV 2.7-1 - Type Approval, NS-EN 818-4, EN 12079-2 DNV TA. Nr/DNV TA.No : TAS00001RH Arb.vinkel/Sling leg ang. : 30° Diameter/Diameter : 13 mm Lengde / Length : 2000 mm Material : Grade 80 Enhancement factor : 1.59 Ref. McKinnon Chain Inspection Certificate no. CS20 4840 Redskapet er sammensatt av sertifiserte typegodkjente enkeltkomponenter fra produsent. / The lifting equipment consists of components approved by producer.	*	*	*	8,7t

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
Org.nr./Entity ID: 818745702
Plattformveien 6
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
Fagleder

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.

01.05.2020

Øyvind Jacobsen, Stavanger , Fagleder

Kunde/Client: BLUE MANTA AS

Sertifikat nr./Certificate no.: RED-250235

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: 11512

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)
2xATO-10223 & 2xDEO-12865	H-Sjakkell m/mutterbolt Offshore Gunnebo 856 WLL.4,75T Serienr./Serial No/Batch: 2xATO-10223 & 2xDEO-12865 Produsent/Producer: Gunnebo Anja Industrier AS Prod. iht./acc. to: NS-EN-13889, US Fed Spec RR-C-271 Antall /Number of : 4 Størrelse/Size : 3/4" x 7/8" Material : Carbon Steel - Grade 8 Sik.faktor/Safety fact (SF) : 8:1 Testet av produsent i serieproduksjon/ Tested by manufacturer in serial production.	*	*	*	4,75

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
Org.nr./Entity ID: 818745702
Plattformveien 6
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
Fagleder

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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.

10.06.2022

Øyvind Jacobsen, Stavanger , Fagleder