

Kontrollkort/Bruksattest/ILO Form No.1

Control-card/Letter of conformity

www.otic.no



OTIC as PB122 Nor Sea N-4098 Tananger

Tlf: 51 69 27 50 Fax: 51 69 27 65

NO216

Owner / Kunde: Blue Manta International Limited		Description of main unit / Beskrivelse av hovedenhet: Large Back Tension Spooling Unit (96")	
Main Unit / Hovedenhet:			
ID nr/ID no: BM-SP-9606	Certified by / Sertifisert av: Lloyds Register, Aberdeen - 30.06.2015	Cert. no / Sert. nr: ABN1305497/6	
Serial no / Serie nr: BM-SP-9606			
Max working load/Max tillatt arb.bel. 12 Tonn	Tara/Tara 2,5 Tonn	Gross/Gross 14,5 Tonn	
Length/Lengde 3140 mm	Width/Bredde 2780 mm	Height/Høyde 2975 mm	
Angle/Vinkel 45 °			
Producer / Produsent: Blue Manta International Limited I henhold til DNV 2.7.1/Acc to DNV 2.7-1 Ishet EN12079	Dealer / Forhandler:	Prod. year / Prod. år: 2015	
Sub unit(s) / Underenheter:			
Kjettingsling - 4-Part Kjettingsling WLL 17T			
Grade 8			
ID nr/ID no: EMN4275	Certified by / Sertifisert av: Scaw Metals Group - 01.03.2015	Cert. no / Sert. nr: CS15-4518	
Max working load/Max tillatt arb.bel. 17 Tonn	Length/Lengde 4000 mm	Angle/Vinkel 30 °	
Diameter/Diameter 16 mm	Rings/Ringer 36,22,16,20mm	Parts/Parter 4 Antall	
Producer / Produsent: Scaw Metals Group I henhold til maskindirektivet 522/Acc to machine directive 522 Type aproved DNV 2.7-1	Dealer / Forhandler:	Prod. year / Prod. år: 2015	
Sjakler - 4 Stk. H-Sjakkel Offshore WLL.8,5Tonn			
Type 856, Grade 8, NS-EN 13889			
ID nr/ID no: ZBO-10253	Certified by / Sertifisert av: W.Giertsen Services AS - 01.12.2015	Cert. no / Sert. nr: 257580-3	
Max working load/Max tillatt arb.bel. 8,5 Tonn			
Producer / Produsent: Gunnabo-Anja I henhold til maskindirektivet 522/Acc to machine directive 522 Type aproved DNV 2.7-1	Dealer / Forhandler: Otic AS	Prod. year / Prod. år: 2015	
Remarks / Merknader: Ingen merknader/No remarks			
Control date / Kontrolldato 03.12.2015 Neste kontroll innen 03.12.2016	Control type / Kontrolltype Annual control performed / Årlig kontroll utført/periodisk kontroll	Status Ok	<i>Tor Inge Olsen</i>

INSPECTION CERTIFICATE

acc. To EN 10204 3.1

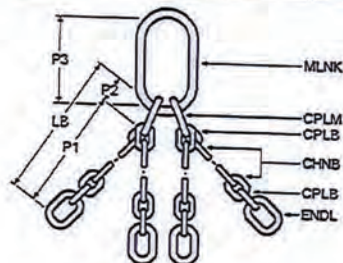
TYPE APPROVED CHAIN SLINGS FOR OFFSHORE CONTAINERS



McKinnon Chain
161 A Ring Road Duncanville
Vereniging South Africa
PO Box 61721 Marshalltown
Gauteng, 2107, South Africa
Tel: +27 16 428-6000
Fax: +27 16 428-1089/1212/1420
E-mail: chainsec@scaw.co.za
Website: www.scawmetals.com

Date of Manufacture	February 2015	Date of Test	2015/03/01	Cert no.	CS15 4518
Supplied To	Otic Equipment AS				
Customer Order No.			Order Date	2015/01/21	
McKinnon Order No.	664194		Despatch Date	2015/03/10	
Commodity No.	OSWDNV41704000	Quantity	\$ Each	Serial No.	EMN4273-EMN4277
Description	16 mm Grade 8 4-Legged Off-Shore Container Lifting Sling			Batch / Drum No.	15B9723 43,44,45
Working Load Limit (T)	17.0	at	30	* (to the vertical max) or	60
Enhancement Factor	4.91				Reach LB
					4000(+120-0mm)

Component	Bill of material	Dimensions
MLNK (P3)	OML360DNV	36.0x140.0x270.0mm
CPLM (P2)	OSA280SDNV	22.0x50.0x120.0mm
CHNB (P1)	C8A160SLS	16.0x22.4x48.0mm
CPLB (P1)	CPL200	20.0x50.0x110.0mm
ENDL (P2)	OSA280SDNV	22.0x50.0x120.0mm



Markings: refer to tag

Notes:

Working Load Limit = maximum gross container mass

This certificate refers to DIN EN 818-2 and 818-4 for the chain and DIN 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 BS EN 12079. This certificate is based on DNV type approval no. S-7731.

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, fulfils the applicable essential Health and Safety requirements of the Machinery Directive, 2006/42/EC

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

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

SANS ISO 9001:2008 approval by SABS (Reg no:200/0138581/01) Address: 1 Dr Latagan Rd, Groenkloof, Private Bag X191, Pretoria, 0001, RSA

After 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 (P3)	1400993	0.21	0.012	0.003	0.23	0.029	0.490	0.457	0.234
CPLM (P2)	1402995	0.23	0.015	0.002	0.21	0.049	0.500	0.478	0.244
CHNB (P1)	1402991	0.24	0.015	0.004	0.21	0.037	0.500	0.491	0.240
CPLB (P1)	1402993	0.24	0.015	0.004	0.21	0.037	0.500	0.491	0.240
ENDL (P2)	1402995	0.23	0.015	0.002	0.21	0.049	0.500	0.478	0.244

IMPACT RESISTANCE (Charpy V-Notch Joule)

Sling Component	Cast No.	Results	Test Temp.	Location	Required
MLNK (P3)	1400993	48, 53, 60 (ave 50)	-20 °C	Parent Metal	42 J min
CPLM (P2)	1402995	58, 54, 72 (ave 94)	Parent Metal	42 J min	
CHNB (P1)	1402991	53, 51, 52 (ave 52)	Parent Metal	42 J min	
CPLB (P1)	1402993	45, 44, 47 (ave 44)	Parent Metal	42 J min	
ENDL (P2)	1402995	58, 54, 72 (ave 94)	Parent Metal	42 J min	

MECHANICAL PROPERTIES

Sling Component	Cast No.	PF kN		BF kN		Yield Point Actual:	Tensile Strength Actual:	Elongation Actual: %
		Act.	Req'd	Act.	Req'd			
MLNK (P3)	1400993	512+	512	1695	819	N/A	N/A	N/A
CPLM (P2)	1402995	296+	296	495	473	N/A	N/A	N/A
CHNB (P1)	1402991	198+	198	345	316	N/A	N/A	N/A
CPLB (P1)	1402993	198+	198	430	316	N/A	N/A	N/A
ENDL (P2)	1402995	296+	296	495	473	N/A	N/A	N/A

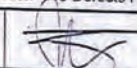
Crack Detection (NDT):

Magnetic Particle Inspection - No Defects Found

Authorized Person

Z. Mudau (QA Manager)

Signature



2015/04/02

Date