

ABERDEEN LIFTING SERVICES LTD



E.C. DECLARATION OF CONFORMITY

CLIENT: BLUE MANTA 6 KIRKTON AVENUE PITMEDDEN RD IND EST DYCE ABERDEEN AB21 0BF	TEST HOUSE: ABERDEEN LIFTING SERVICES LTD HOWE MOSS CRESCENT KIRKHILL IND EST ABERDEEN AB21 0GN TEL: 01224 723333 FAX: 01224 723311
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DECLARATION No.	CUSTOMER ORDER No.		REQUISITION No.	DATE
G6042-03	21642			26/08/2015
I.D. NUMBER	QTY	DESCRIPTION	WLL/ PAYLOAD	PROOF LOAD
BM-SP-3622/1	1	FOUR LEG WIRE ROPE SLING TO DNV2.7-1 (2013) & NORSOK-R002 LEGS 1.4M x 19MM DIA IWRC FITTED TO HA26QA QUAD ASSEMBLY C/W FLEMISH EYES TENSILE GRADE: 1960N/MM2	2 TONNE 0-45 DEG	9.2 TONNE PER LEG
22/2-5	4	SAFETY PIN BOW SHACKLES (POLAR)	4.75 TON	9.5 TON

DECLARATION: I declare that the items described above comply with all the requirements of The Machinery Directive 2006/42/EC 1ST Edition 2009.

	COMPLETED BY:
ENGINEER.	M.MAKAR
SIGNATURE.	<i>PP. 4/1/15</i>
DATE.	26/08/2015

NEXT INSPECTION DATE: 25/02/2016
DATE OF MANUFACTURE: 26/08/2015



ABERDEEN LIFTING SERVICES LTD

CERTIFICATE FOR OFFSHORE CONTAINER LIFTING SLINGS

MANUFACTURER:	ABERDEEN LIFTING SERVICES LTD		ADDRESS:	HOWE MOSS CRESCENT KIRKHILL IND EST DYCE ABERDEEN, AB21 0GN
CLIENT	BLUE MANTA			
DET NORSKE VERITAS TYPE APPROVAL No:			TYPE DESIGNATION:	
S-6558			LIFTING SETS FOR OFFSHORE CONTAINERS	
DESCRIPTION OF THE SLING:			IDENTIFICATION No:	
1 x 4 LEG WIRE ROPE SLING			SLINGS: BM-SP-3622/1 SHACKLES: 22/2-5	
WORKING LOAD LIMIT (WLL)	ANGLE OF LEGS (TO VERTICAL)	DIAMETER OF SLING LEGS:	LENGTH OF LEGS:	
2 TONNE	0-45 DEG	19MM DIA IWRC	1.4 MTR	
WIRE ROPE SLINGS				
REFERENCE STANDARD:	GRADE OF WIRE ROPE		GRADE OF TERMINAL FITTINGS	
DNV2.7-1 (2013)	1960N/mm ²		GRADE 80	
TESTS CARRIED OUT ON SLING:	DNV2.7-1 (2013)	TEST REPORT No:	G6042-03	
LIFTING SET COMPONENTS- (SHACKLES TO BE INCLUDED ONLY IF ASSEMBLY SECURED) (IF NEW COMPONENTS ARE INSTALLED BEFORE RE-CERTIFICATION, REFERENCE TO PREVIOUS CERTIFICATE NUMBER AND THE NEW COMPONENTS UNIQUE IDENTIFICATION MARK)				
DESCRIPTION	SUPPLIER/MANUFACTURER	IDENTIFICATION MARK	DNV TA No:	
19MM DIA IWRC WIRE ROPE	USHA MARTIN	UCR117		
HA26QA QUAD ASSY	HACKETTS	14C	S-5678	
4.75 TON SAFETY PIN BOW SHACKLES (POLAR)	VAN BEEST	AH8, 8AX	S-5623	
THIS LIFTING SET HAS BEEN DESIGNED, APPROVED AND TESTED IN ACCORDANCE WITH DET NORSKE VERITAS STANDARD FOR CERTIFICATION No: 2.7-1 "OFFSHORE CONTAINERS (2013)"				
THIS SLING ALSO CONFORMS TO THE FOLLOWING STANDARDS(S): NORSOK-R002				
REMARKS: ALS CERT No: G6042-03				
THIS CERTIFICATE IS BASED ON DNV TYPE APPROVAL No. S-6558				
DATE: 26/08/2015 PLACE: ALS WORKSHOP NAME & TITLE: M.MAKAR	 MANUFACTURER NAME & ENDORSMENT		SIGNATURE: PP. 4H e... QF48	

برنتون وولف واير رopes ش.م.ج.



**Brunton-Wolf
Wire Ropes FZCo.**

an **usha martin**

&
gustav wolf company

INSPECTION CERTIFICATE
(type 3.1 EN 10204:2004)

Certificate Number : H 941312/ 5 Date:28-12-2014
Customer : USHA MARTIN UK LTD
Customer Order Ref : 12352 Date:18-12-2014
Works Order Number : 907803/ 1 Date:21-12-2014
Reel Number : 941312/5 Date of test:18-12-2014

Manufacturer : **BRUNTON WOLF WIRE ROPES FZCo.**

SPECIFICATION

Product : Steel Wire Rope
Applied Standard : Generally in accordance with
EN12385/4/2002
Nominal Diameter of Rope : 19 mm
Construction : 6X36 , Preformed
Strand Construction : 14-7+7-7-1
Tensile Grade of Steel Wire : 1960 N/mm2
Wire Finish/Material Grade : Galvanised
Type of Core/Lay Direction : IWRC / RHO
Length of Rope : 1000.00 Mtr
Mass/Unit Length (Apprx.) : 1.497 Kg/Mtr
Lubrication : A2 / PETROLEUM LUBE
Minimum Breaking Force : 252.0 kN

RESULTS OF TEST & EXAMINATION

Measured Dia. Off-tension : 19.420 mm
Measured Lay Off-tension : 121.00 mm
Measured Breaking Force : 268.3 kN

INDIVIDUAL WIRE TESTS

Sl. No.	Wire Dia	Tensile Strength (Avg)	Bend (Avg)	Torsion (Avg)	Knot Test	Wt.of Zinc Coating (Avg)
1	1.22 mm	2072 N/Sq.mm	16	33	NA	101 g/sqm
2	0.90 mm	2058 N/Sq.mm	16	33	NA	81 g/sqm
3	0.86 mm	2036 N/Sq.mm	14	32	NA	75 g/sqm
4	0.66 mm	2107 N/Sq.mm	15	30	NA	62 g/sqm
5	1.06 mm	2034 N/Sq.mm	15	34	NA	88 g/sqm

CHEMICAL ANALYSIS OF WIRE ROD

Sl.	Wire Dia	Carbon%	Manganese%	Silicon%	Sulphur%	Phosphorus%
1	1.22 mm	0.780	0.710	0.210	0.007	0.010
2	0.90 mm	0.780	0.710	0.210	0.007	0.010
3	0.86 mm	0.780	0.710	0.210	0.007	0.010
4	0.66 mm	0.780	0.710	0.210	0.007	0.010
5	1.06 mm	0.780	0.710	0.210	0.007	0.010

This is to certify that the above tests have been carried out in accordance with the specification.

6999/ 1
PO Box17491
Jebel Ali Free Zone
Dubai UAE



Signature of
Competent Person



tel: +971 4 8838151

Fax: +971 4 8838152

E-mail: wireropes@bsme-uae.com

Website: www.bruntonwolf.com

شركة ذات مسؤولية محدودة تأسست بموجب القانون رقم ٢ لسنة ١٩٨٦ ووفقاً لللائحة التنفيذية رقم ١ لسنة ١٩٩٩
Formed Pursuant to Law No. 2 of 1986 & Implementing Regulation No. 1 of 1999 with Limited Liability

008597



McKinnon Chain

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Fax: +27 16 428-1089/1212/1420
E-mail: chainsec@scaw.co.za
Website: www.scawmetals.com

Test Certificate for Oblong Master Links/Sub-assemblies

Declaration of conformity acc. to Directive 2006/42/EC, Annex II 1. B

Certificate number CC14 0201

Supplied To: William Hackett (N)
Customer Order No.: 007824
Scaw Order No.: 619598
Order date: 16 April 2014
Dispatch date: 19 May 2014
Commodity No.: 08A280DNV
Product Description: HA-28 QA Oblong Sub-Assembly to DNV 2.7.1
Total Quantity: 610 Each

Batch number: 14C 14A
Drum number: 26,28,31-35 27,28,30
Quantity per batch: 371 139
Date of manufacture: Mar 2014 Jan 2014
Date tested: Apr 2014 Feb 2014
Markings: HA-28 QA & Batch Number
Intended for: Lifting slings

Mechanical properties:

Working Load Limit: 11.8 tonne at 45° to the vertical
Proof Force Minimum: 290 kN Proof Force: 290 kN
Break Force Minimum: 578 kN Break Force Exceeds: 578 kN
Safety Factor: 5 : 1
Charpy V-notch Impact value: 242 Joule at -40°C

Chemical analysis of steel:

		C	Si	Mn	P	S	Ni	Cr	Mo	Al
Specification	Min	0.20	0.15	1.10	0	0	0.40	0.40	0.20	0.025
	Max	0.25	0.25	1.30	0.025	0.020	0.80	0.80	0.30	0.080

Notes:

All DNV links are specially heat treated after proof testing to minimize the risk of Hydrogen embrittlement and stress corrosion cracking

Manufacturer's certificate refers to DIN EN 1677-4 for components.

Declaration of Incorporation of partly completed machinery refer to the Directive 2006/42/EG, Annex II 1.9

Assembling instruction refer to the relevant European standard, Directive 2006/42/EG.

SANS ISO 9001:2008 approval by SABS (Reg no: 2000/0138581/07) - Address: 10r Leleagan Road, Greenkloof, Private Bag X 191, Pretoria, 0001, RSA

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 (QA Manager) - Use company address above

After treatment of chain: 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

The components are designed, approved, tested and certified in accordance with the following specification / standard:
DNV2.7-1

This certificate is based on DNV type approval no. 8-7732.

Vereeniging, Gauteng, RSA

Authorized Person

Z. Mudau (QA Manager)

Signature

2014-05-22

GEN 161-001-1 -02-00

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 www.vanbeest.nl



Brierley Lifting Tackle Co
 Timmis Road, Lye
 DY9 7BQ Stourbridge, West Midlands
 United Kingdom

INSPECTION CERTIFICATE TO EN 10204 - TYPE 3.1

Number 80089715 Date 18.07.2014
 Customer no. 30191 Page 2 / 13

Our order no.	Your ref. no.
131531	9400

Qty.	Description
100	POGHMB19 G-5163, Green Pin® Polar Shackles, bow shackles with safety bolt, for use under extreme climatic conditions, to EN13889, hot dipped galvanized, grade 8, diameter bow 19 mm, diameter pin 22 mm, WLL 4.75 ton

Material properties

Line	Charge no.	Yieldpoint (N/mm ²)	Tensile Strength (N/mm ²)	Elongation (%)	Impact test type: Charpy V (Joules)					Item	Traceability
					temp (°C)	1	2	3	Avg		
1	6613110254	790	910	14	-40	149	144	136	143	Bow	AH
2	6613080390	899	977	18	-40	100	98	102	100	Pin	AX

Chemical composition

Line	C %	Si %	Mn %	P %	S %	Cr %	Mo %	Ni %	V %	Cu %	Al %
1	0.360	0.200	0.570	0.010	0.004	0.960	0.150	0.070		0.110	0.027
2	0.340	0.200	0.550	0.010	0.008	0.950	0.150				0.026

J.J. Vermeulen (QA-Manager)



VAN BEEST B.V., manufacturer and supplier of wire rope and chain fittings.

Registered trade marks "Green Pin" and "Excel". Member of Van Beest International.

Rabobank IBAN code: NL88RABO0359343155, SWIFT/BIC code: RABONL2U

VAT number NL 0091.33.835.B01, Chamber of Commerce Rotterdam - No. 23009317. All our offers and contracts are subject to our General Conditions of Sale as registered with the District Court of Dordrecht on March 12, 2012 under number AL 5/2012.

Form : KF-10-16E

Issue date: 18.07.2014