

ABERDEEN LIFTING SERVICES LTD

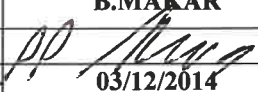


E.C. DECLARATION OF CONFORMITY

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
F7424-01	19210			03/12/2014
I.D. NUMBER	QTY	DESCRIPTION	WLL/ PAYLOAD	PROOF LOAD
BM-7515/1	1	FOUR LEG WIRE ROPE SLING TO DNV2.7-1 (2013) & BSEN12079 LEGS 3.2M x 26MM DIA IWRC FITTED TO HA32QA QUAD ASSEMBLY TENSILE GRADE: 1960N/MM2	11 TONNE 0-45 DEG	17.4 TONNE PER LEG
15/2P TO 15/5P	4	SAFETY PIN BOW SHACKLES (POLAR)	8.5 TON	17 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.	B.MAKAR
SIGNATURE.	
DATE.	03/12/2014

NEXT INSPECTION DATE: 02/06/2015
DATE OF MANUFACTURE: 03/12/2014



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 SLINGS		SLINGS: BM-7515/1 SHACKLES: 15/2P TO 15/5P		
WORKING LOAD LIMIT (WLL)	ANGLE OF LEGS (TO VERTICAL)	DIAMETER OF SLING LEGS:	LENGTH OF LEGS:	
11 TONNE	0-45 DEG	26MM DIA IWRC	3.2M	
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:	F7424-010	
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:	
26MM DIA IWRC WIRE ROPE	BRUNTON WOLF	UCR017		
HA32QA QUAD ASSY	HACKETTS	14E	S-5678	
8.5 TON SAFETY PIN BOW SHACKLES (POLAR)	VAN BEEST	8AJ, V8	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):				
REMARKS: ALS CERT No: F7424-01				
THIS CERTIFICATE IS BASED ON DNV TYPE APPROVAL No. S-6558				
DATE: 03/12/2014 PLACE: ALS WORKSHOP NAME & TITLE: B.MAKAR	 MANUFACTURER NAME & ENDORSMENT		SIGNATURE: 	

QF48



Brunton-Wolf
Wire Ropes FZCo.

INSPECTION CERTIFICATE
(type 3.1 EN 10204:2004)



Certificate Number : H 939733/ 3 Date: 05-08-2014
Customer : USHA MARTIN UK LTD
Customer Order Ref : 12255 Date: 30-06-2014
Works Order Number : 907220/ 2 Date: 01-07-2014
Reel Number : 939733/3 Date of test: 29-07-2014

Manufacturer : BRUNTON WOLF WIRE ROPES FZCo.

SPECIFICATION

Product : Steel Wire Rope
Applied Standard : EN12385/4/2002

Nominal Diameter of Rope : 26 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 : 500.00 Mtr
Mass/Unit Length (Apprx.) : 2.814 Kg/Mtr
Lubrication : A2 / PETROLEUM LUBE
Minimum Breaking Force : 472.0 kN

RESULTS OF TEST & EXAMINATION

Measured Dia. Off-tension : 26.600 mm
Measured Lay Off-tension : 165.00 mm
Measured Breaking Force : 503.4 kN

INDIVIDUAL WIRE TESTS

Sl. No.	Wire Dia	Tensile Strength (Avg)	Bend (Avg)	Torsion (Avg)	Knot Test	Wt. of Zinc Coating (Avg)
1	1.65 mm	2069 N/Sq.mm	14	30	NA	118 g/sqm
2	1.23 mm	2051 N/Sq.mm	16	34	NA	103 g/sqm
3	1.18 mm	2065 N/Sq.mm	16	32	NA	93 g/sqm
4	0.91 mm	2123 N/Sq.mm	15	35	NA	74 g/sqm
5	1.45 mm	2050 N/Sq.mm	16	33	NA	115 g/sqm

CHEMICAL ANALYSIS OF WIRE ROD

Sl. No.	Wire Dia	Carbon%	Manganese%	Silicon%	Sulphur%	Phosphorus%
1	1.65 mm	0.770	0.760	0.150	0.008	0.010
2	1.23 mm	0.770	0.760	0.150	0.008	0.010
3	1.18 mm	0.770	0.760	0.150	0.008	0.010
4	0.91 mm	0.770	0.760	0.150	0.008	0.010
5	1.45 mm	0.770	0.760	0.150	0.008	0.010

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

6605/ 1
P.O. Box 17491
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



Test Certificate for Oblong Master Links/Sub-assemblies
Declaration of conformity acc. to Directive 2006/42/EC, Annex II 1. B

Certificate number **CC14 0333**

Supplied To: **William Hackett (N)**
Customer Order No.: **008113**
Scaw Order No.: **627943**
Order date: **06 June 2014**
Dispatch date: **22 July 2014**
Commodity No.: **OSA360DNV**
Product Description: **HA-36 QA Oblong Sub-Assembly to DNV 2.7.1**
Total Quantity: **198 Each**

Batch number: **14E**
Drum number: **9-14,28**
Quantity per batch: **198**

Date of manufacture: **May 2014**
Date tested: **June 2014**

Markings: **HA-36 QA & Batch Number**
Intended for: **Lifting slings**

Mechanical properties:

Working Load Limit:	23 tonne at 45° to the vertical			
Proof Force Minimum:	585	kN	Proof Force:	585 kN
Break Force Minimum:	1128	kN	Break Force Exceeds:	1128 kN
Safety Factor:	5 : 1			
Charpy V-notch Impact value:	≥42	Joule at -20°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	0.60	0.60	0.30	0.080

Notes:

1. 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 1.8

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: 1Dr Lategan Road, Groenkloof, 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. S-7732.

Vereeniging, Gauteng, RSA

Authorized Person

Z. Mudau (QA Manager)

Signature



2014-07-22

P.O. Box 57, 3360 AB Sliedrecht
Industrieweg 6, 3361 HJ Sliedrecht
The Netherlands
Tel. +31 184 41 33 00
Fax. +31 184 41 49 59
email: sales@vanbeest.nl
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 80075082 **Date** 11.09.2013
Customer no. 30191 **Page** 4 / 8

Our order no.	Your ref. no.
111749	8240

Qty.	Description
20	POGHMB25 G-5163, Green Pin® Polar Shackles, bow shackles with safety bolt, for use under extreme climatic conditions, hot dipped galvanized, diameter bow 25 mm, diameter pin 28 mm, WLL 8.5 ton

Material properties

Material properties					Impact test type: Charpy V (Joules)					Item	Traceability
Line	Charge no.	Yieldpoint (N/mm2)	Tensile Strength (N/mm2)	Elongation (%)							
					temp (°C)	1	2	3	Avg		
1	6611010630	910	1020	15	-20	111	112	117	113	Bow	V 8 GP
2	6610080576	745	865	16	-40	92	66	100	86	Pin	GP 8 AJ

Chemical composition

Line	C %	Si %	Mn %	P %	S %	Cr %	Mo %	Ni %	V %	Cu %		
1	0.350	0.190	0.590	0.009	0.007	0.990	0.160	0.050		0.140		
2	0.330	0.190	0.470	0.009	0.005	0.870	0.160					

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 account nr. 35 93 43 155, IBAN code: NL86RABO0359343155, 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: 11.09.2013