

ABERDEEN LIFTING SERVICES LTD



E.C. DECLARATION OF CONFORMITY

CLIENT: BLUE MANTA 6 KIRKTON AVENUE PITMEDDEN ROAD IND. ESTATE DYCE AB21 0BF	NAME AND ADDRESS OF MANUFACTURER: ABERDEEN LIFTING SERVICES LTD HOWE MOSS CRESCENT KIRKHILL IND ESTATE ABERDEEN, AB21 0GN TEL: 01224 723333 FAX: 01224 723311 EMAIL: info@aberdeenlifting.co.uk
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DECLARATION No.	CUSTOMER ORDER No.		REQUISITION No.	DATE
N8357-01	39321			19/04/2022
I.D. NUMBER	QTY	DESCRIPTION	WLL/ PAYLOAD	PROOF LOAD
2524/1	1	FOUR LEG WIRE ROPE SLING TO DNVGL-ST-E271 (2017) LEGS 3.5MTR x 26MM DIA IWRC FITTED TO HA32QA QUAD ASSEMBLY TENSILE GRADE: 1960N/mm2	12.5 TONNE 0-45 DEG	17.4 TONNE PER LEG
2524/2-5	4	SAFETY PIN BOW SHACKLES (POLAR)	9.5 TON	19 TON

DECLARATION: Aberdeen Lifting Services declare that the items described above comply with all the requirements of The Machinery Directive 2006/42/EC.

	COMPLETED BY:
PRINT NAME	A.CRAIG
AUTHORISED SIGNATURE	
POSITION	OPERATIONS MANAGER
DATE	19/04/2022

NEXT INSPECTION DATE: 18/10/2022
DATE OF MANUFACTURE: 19/04/2022

Note: Before using this equipment the duty holder shall ensure that the relevant correct use and care instructions are issued to the user or operator. Copies are available on request.

ABERDEEN LIFTING SERVICES LTD



E.C. DECLARATION OF CONFORMITY

CLIENT: BLUE MANTA 6 KIRKTON AVENUE PITMEDDEN ROAD IND. ESTATE DYCE AB21 0BF	NAME AND ADDRESS OF MANUFACTURER: ABERDEEN LIFTING SERVICES LTD HOWE MOSS CRESCENT KIRKHILL IND ESTATE ABERDEEN, AB21 0GN TEL: 01224 723333 FAX: 01224 723311 EMAIL: info@aberdeenlifting.co.uk
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DECLARATION No.	CUSTOMER ORDER No.		REQUISITION No.	DATE
N8357-02	39321			19/04/2022
I.D. NUMBER	QTY	DESCRIPTION	WLL/ PAYLOAD	PROOF LOAD
2525/1	1	FOUR LEG WIRE ROPE SLING TO DNVGL-ST-E271 (2017) LEGS 3.5MTR x 26MM DIA IWRC FITTED TO HA32QA QUAD ASSEMBLY TENSILE GRADE: 1960N/mm2	12.5 TONNE 0-45 DEG	17.4 TONNE PER LEG
2525/2-5	4	SAFETY PIN BOW SHACKLES (POLAR)	9.5 TON	19 TON

DECLARATION: Aberdeen Lifting Services declare that the items described above comply with all the requirements of The Machinery Directive 2006/42/EC.

	COMPLETED BY:
PRINT NAME	A.CRAIG
AUTHORISED SIGNATURE	
POSITION	OPERATIONS MANAGER
DATE	19/04/2022

NEXT INSPECTION DATE: 18/10/2022
DATE OF MANUFACTURE: 19/04/2022

Note: Before using this equipment the duty holder shall ensure that the relevant correct use and care instructions are issued to the user or operator. Copies are available on request.



ABERDEEN LIFTING SERVICES LTD

CERTIFICATE FOR OFFSHORE CONTAINER LIFTING SLINGS

MANUFACTURER:	ABERDEEN LIFTING SERVICES LTD		ADDRESS:	HOWE MOSS CRESCENT KIRKILL IND EST DYCE ABERDEEN, AB21 0GN
CLIENT	BLUE MANTA			
DET NORSKE VERITAS TYPE APPROVAL No:		TYPE DESIGNATION:		
TAS000024R		LIFTING SETS FOR OFFSHORE CONTAINERS		
DESCRIPTION OF THE SLING:		IDENTIFICATION No:		
2 x 4 LEG WIRE ROPE SLING		SLINGS: 2524/1, 2525/1 SHACKLES: 2524/2-5, 2525/2-5		
WORKING LOAD LIMIT (WLL)	ANGLE OF LEGS (TO VERTICAL)	DIAMETER OF SLING LEGS:	LENGTH OF LEGS:	
12.5 TONNE	0-45 DDEG	26MM DIA IWRC	3.5 MTR	
WIRE ROPE SLINGS				
REFERENCE STANDARD:	GRADE OF WIRE ROPE	GRADE OF TERMINAL FITTINGS		
DNVGL-ST-E271 (2017)	1960N/mm ²	GRADE 80/60		
TESTS CARRIED OUT ON SLING:	DNVGL-ST-E271 (2017)	TEST REPORT No:	N8357-01 & N8357-02	
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	MANUFACTURER	IDENTIFICATION MARK	DNV TA No:	
26MM DIA IWRC WIRE ROPE	USHA MARTIN	UCR952		
HA32QA QUAD ASSY	MCKINNON CHAIN	21J	TAS000013Z	
9.5 TON SAFETY PIN BOW SHACKLES (POLAR)	YOKE	AAA/AAA	TAS0000241	
THIS LIFTING SET HAS BEEN DESIGNED, APPROVED AND TESTED IN ACCORDANCE WITH DET NORSKE VERITAS STANDARD FOR CERTIFICATION No: 2.7-1 "OFFSHORE CONTAINERS (2017)"				
THIS SLING ALSO CONFORMS TO THE FOLLOWING STANDARDS(S): BSEN13414 PT1				
REMARKS: ALS CERT No: N8357-01 & N8357-02				
THIS CERTIFICATE IS BASED ON DNV TYPE APPROVAL No. TAS000024R				
DATE: 19/04/2022			SIGNATURE: 	
PLACE: ALS WORKSHOP				
NAME & TITLE: M.BRYCZKOWSKI				
		MANUFACTURER NAME & ENDORSMENT		

برنتون وایر راپس فزکو



Brunton Wire Ropes FZCo.

Ucr952

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Tel : +971 4 8838755, 8838151
Fax : +971 4 8838152
E-mail : wireropes@bsme-uae.com
Website : www.bruntonwire.com

**INSPECTION CERTIFICATE
(TO EN 10204 : 2004/3.1)**

Certificate Number	: CN D037140500	Date	: 25-10-2021
Customer Name	: USHA MARTIN UK LTD	Customer order ref#	: 14060
Sales order	: 3131005167/60	SO Date	: 05-08-2021
Reel Number	: D037140500	Date Of Test	: 06-10-2021
Manufacturer	BRUNTON WIRE ROPES FZCo.		

SPECIFICATION

Product	: STEEL WIRE ROPE
Applied Standard	: EN12385/4/2002
Nominal Diameter of Rope	: 26 mm
Construction	: 6X36SW , Preformed
Strand Construction	: 11 7/7 7 1
Rope Grade	: 1960
Wire Finish/ Material Grade	: Galvanized
Type of Core /Lay Direction	: IWRC / RHO
Length of Rope	: 1000 Mtrs
Mass Per Unit Length(Approx)	: 2.805 kg/m
Type of Lubrication	: A2 / Petroleum Lube
Minimum breaking Force	: 472 KN

RESULT OF TEST & EXAMINATION

Measured Dia Off Tension	: 26.45 mm
Measured Lay Off Tension	: 163 mm
Measured Breaking Force	: 496.8 KN

INDIVIDUAL WIRE TESTS

Sl. No.	Wire - Dia(mm)	Wire - Tensile Strength(Avg)	Bend(Avg)	Torsion(Avg)	Knot Test	Wt. of Zinc coating(gm/m2)
1	1.64	2189	15	35	NA	111
2	1.23	2194	16	33	NA	96
3	1.19	2050	18	34	NA	91
4	0.92	2062	15	34	NA	79
5	1.45	2144	15	34	NA	114

CHEMICAL ANALYSIS OF WIRE ROD

Sl. No.	Wire - Dia(mm)	Carbon(%)	Manganese(%)	Silicon(%)	Sulphur(%)	Phosphorus(%)
1	1.64	0.770	0.660	0.230	0.019	0.022
2	1.23	0.770	0.740	0.190	0.015	0.013
3	1.19	0.780	0.750	0.200	0.006	0.013
4	0.92	0.760	0.720	0.200	0.013	0.014
5	1.45	0.770	0.740	0.180	0.006	0.022

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

Signature of
Competent Person



an usha martin group company



McKinnon Chain

Q 6 2 1 3 5

McKinnon Chain

Haggie Chain (Pty) Ltd T/A McKinnon
Registration Number: 2021/809316/07
Vereeniging South Africa
PO Box 61721 Marshalltown
Gauteng, 2107, South Africa
Tel: +27 16 428-6000
Fax: +27 16 428-1089/1212/1420
E-mail: chainsales@mckinnonchain.co.za
Website: www.mckinnonchain.co.za

Test Certificate for Oblong Master Links/Intermediate Links/Sub-assemblies according to EN 10204 2.2 & ISO 10474 2.2
Declaration of conformity according to Directive 2006/42/EC, Annex II 1. B

Certificate number **CC22 0012**

Supplied To: **William Hackett Lifting Products Limited**
Customer Order No.: **602798**
McKinnon Order No.: **500370**
Order date: **21 January 2022**
Dispatch date: **27 January 2022**
Commodity No.: **OSA320DNV**
Product Description: **HA-32QA 8 OS+ Oblong Sub-Assembly to DNV 2.7-1 - Orange Powder Coated**
Total Quantity: **360 Each**

	21K	21J	21I
Batch number:	21K	21J	21I
Quantity per batch:	279	78	3
Date of manufacture:	November 2021	October 2021	September 2021
Date tested:	December 2021	November 2021	October 2021

Markings:
Intended for: **HA-32QA 8 OS+ & Batch Number**
Lifting slings

Metric:	Imperial:
Working Load Limit: 19 tonne at 45° to the vertical	41887 lbs at 45° to the vertical
Proof Force Minimum: 466 kN	104760 lbf
Break Force Minimum: 932 kN	209521 lbf
Safety Factor: 5 : 1	5 : 1
Charpy V-notch Impact value: ≥42 Joule at -40°C	≥31 ft-lb
Typical Hardness: 34-36 HRC	

Chemical analysis of steel:

Specification	Min	C	Si	Mn	P	S	Ni	Cr	Mo	Al
	Max	0.20	0.15	1.10	0	0	0.90	0.40	0.28	0.025
		0.25	0.25	1.30	0.025	0.020	1.10	0.60	0.32	0.080

Notes:

100% of components are proof tested in accordance with EN1677-4 and in addition the products are also 100% MPI tested.
100% of DNV GL components are then heat treated post proof testing and MPI to minimize the risk of hydrogen embrittlement and stress corrosion cracking
Typical grain size ≥6 in accordance to ASTM E112 and ISO 643.

Manufacturer's certificate refers to EN 1677-4.

ISO 9001:2015 approval by SGS (Certificate ZA17/209870) - Address: Harrowdene Office Park, Building 1, Western Service Road, Woodmead, Johannesburg, 2191, South Africa

Company Representative: C. Djordjevic (General Manager -Haggie Chain (Pty) Ltd T/A McKinnon Chain)

Technical file compiled and certificate signed off by: F. Strydom (Technical Manager) - Use company address above

After treatment of chain: This certificate is only applicable to goods properly used in the condition supplied by Haggie Chain (Pty) Ltd T/A McKinnon Chain
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 to the content of the original certificate.

The components are designed, approved, tested and certified in accordance with the following specification / standard
DNV GL 2.7-1 and DNV GL 2.7-3

This certificate is based on DNV GL type approval no. TAS0000337

Note: Actual test data available on request

Authorized Person

F. Strydom (Technical Manager)

Signature

2022-01-31



Safety is our first priority™

Q61910

YOKE INDUSTRIAL CORP.

#39,33rd Road, Taichung Industrial Park,

TAICHUNG 407, TAIWAN

TEL:+886-4-2350 8088

FAX:+886-4-2350 1001

Certificate of Conformance

Meets the requirements of EN10204 3.1
ISO 9001:2015 Certification by DNVGL and API

Certificate No. 80076356 - 1370

TO: WILLIAM HACKETT
Oak Drive, Lionheart Enterprise Park, Alnwick/Northumberland NE66 2EU
United Kingdom
United Kingdom
44-1665604200

PO No: 602316

Invoice No: 90080574

Description: ITEM : DA-808-28
DA Bolt Pin Anchor Shackle, 1-1/8"
Batch No : AAA/AAA
Quantity : 180 PC
Customer Item No :

C	Si	Mn	P	S	Cr	Mo	Ni	Fe
0.28~0.43	0.15~0.35	0.40~1.00	<0.035	<0.04	0.80~1.20	0.15~0.30	<0.1	other

Working Load Limit :	9.5 tonnes 20900 LBS	Minimum Breaking Load :	745.3 kN 167200 LBS
Manufacturing proof load :	186.3 kN 41800 LBS	Fatigue Rated at 20,000 cycles :	139.7 kN 31350 LBS
Magnetic Flux Crack Tested:	100% of above quantity	Impact Test (-40°C) :	42 J
Material :	Alloy Steel		

Manufactured and Tested in accordance with DNVGL-ST-E271-2.7-1, DNVGL-ST-E273-2.7-3, DNVGL-ST-0378, EN13889, ISO 10855-2, IMO/MSC Circular 860 and satisfactory results. This certificate is based on DNVGL type approval NO. TAS0000136 and TAS0000241.

YOKE INDUSTRIAL CORP.

Jasmin Yu

Dated: 2021/05/19
Qualification: QA Manager

QF-009-017 04(2019.05.13)