

Thorough Examination - Lifted Unit

Client	Blue Manta Pty Ltd	Report No	415897.0052
Client Address	103 Milner Road High Wycombe WA Australia 6057	Inspection Date	19/01/2023
Inspection Location	Blue Manta - High Wycombe		
Job No	415897	Client PO No	4897
Test Specifications Standards	DNVGL-ST-E271	Work Instruction	JI-WI-002

Unit Details

Item Description	21' Open Ended Cargo Basket		
Manufacturer	Thurston Group Limited -YMCL		
Manufacturer Serial No	BM-SRR-003	Client ID No	BM-SRR-003
Tare	2300kg	Length	6400mm
Nett	9700kg	Width	1460mm
MGM	12000kg	Height	1630mm

Certificate Details

CCLE / COC	394155 Rev No. 2	CCLE / COC Date	03/11/2015
Proof Load	394155 Rev No. 2 (batch tested)	Proof Load Test	01/08/2015
NDT	415897.44	NDT Test Date	19/01/2023

Examination Details

A certified visual inspection was conducted on the above unit, including underside.

Results at time of Inspection

Item/s examined COMPLY

Inspector	Devyn Jupp	Report Expiry Date	19/01/2024
Approved Signatory Name	Devyn Jupp	 Inspection and Testing Facility Accredited for compliance with ISO/IEC 17020 Accreditation No: 20435 Site Number: 24464	
Signature			
Report Issue Date	19/01/2023		

Thorough Examination - Wire Rope Sling

Client	Blue Manta Pty Ltd	Report No	415897.0053
Client Address	103 Milner Road High Wycombe WA Australia 6057	Inspection Date	19/01/2023
Inspection Location	Blue Manta - High Wycombe		
Job No	415897	Client PO No	4897
Test Specifications Standards	DNVGL-ST-E271	Work Instruction	JI-WI-001

Sling Details

Item ID	BM-SRR-003/1		
Manufacturer	Nobles		Manufacturer ID BM-SRR-003/1
Number of legs	Four		WLL @ Deg 12 Tonne @ 45°
Rope Diameter	Top Leg	NA	Bottom Legs 26mm
Rope Length	Top Leg	NA	Bottom Legs 4656mm
Core	IWRC		Shackle ID AK / AZ
Construction	6x36		Heading / Quad Assembly HA32QA
Rope Lay	RHOL		Shackle WLL 8.5 Tonne
			Other End Fittings NA
			Rope Grade 1960

Certificate Details

Proof Load Certificate	NDNV3231	Proof Load Date	15/10/2015
NDT Certificate	415897.47	NDT Date	19/01/2023

Examination Comments

A certified visual inspection was conducted on the above wire rope sling.

Results at time of Inspection

Item/s examined COMPLY

Inspector	Devyn Jupp	Report Expiry Date	19/01/2024
Approved Signatory Name	Devyn Jupp		Inspection and Testing Facility Accredited for compliance with ISO/IEC 17020 Accreditation No: 20435 Site Number: 24464
Signature			
Report Issue Date	19/01/2023		

TESTED LIFTING GEAR & MINING EQUIPMENT SPECIALISTS

50 Kewdale Road, Welshpool WA 6106
Telephone: (08) 9365 1100
Facsimile: (08) 9365 1199

Coolawanyah Road, Karratha WA 6714
Telephone: (08) 9185 2244
Facsimile: (08) 9185 1033

CERTIFICATE
NUMBER

NDNV 3231

CERTIFICATE FOR OFFSHORE CONTAINER LIFTING SLINGS

Manufacturer: A. NOBLE & SON LTD.		Address: 50 Kewdale Road Welshpool W.A 6106	
DNV Type Approval No.: S-8482		Type designation: Wire Rope Slings for Offshore Containers	
Working Load Limit: 12 tonne	Angle of legs (to vertical): 45 degrees	Diameter of sling legs/fore runner: 26 mm	Length of legs: 4.656 metres
Description of sling: New 4 leg wire rope sling fitted to HA32QA Quad Link Assembly		ID number: BM-SRR-003/1	
Wire Rope Slings			
Reference standard: DNV 2.7-1 2013	Grade of wire rope: 1960	Grade of terminal fittings: Type: S, Type: T for Quad Link	
Tests carried out on sling: Proof load tested to AS1666.1-2009		Test report No.: NDNV3231	
Lifting set components			
Description:	Manufacturer:	Identification mark:	DNV TA No.:
Wire Rope: 26	DSR	D1056 (NDNV2934)	-AMM-5749
Quad Link Assembly	Scaw	14J98-41	S-7732
Ferrule	--	--	--
Thimble	--	--	--
Shackle	VAN BEEST	003/1 A-D	S-7693
Shackles assembly secured? NO		8.5 tonne (Batch: Body – AK6GP, Pin – GP6AZ)	
This lifting set has been designed, approved and tested in accordance with Det Norske Veritas Certification Notes no. 2.7-1 "Certification of Offshore Freight Containers".			
The sling also conforms to the following standard(s): - EN13414:2003 - AS EN 12079:2010			
Remarks: NEW SLING			
This certificate is based on DNV type approval No. S-8482			
Date: 15/10/2015 Place: A.NOBLE & SON LTD, Perth W.A Nobles Reference: S107014		Client: BLUE MANTA 103 Milner Road High Wycombe WA 6057 Client Reference: 0000001109	


Ricky Gleis

Approved Signatory
Date: _____

21 OCT 2015

NATA Accredited
Laboratory Number:
1836

Eddy Current Test

Client	Blue Manta Pty Ltd	Report No	415897.0044
Client Address	103 Milner Road High Wycombe WA Australia 6057	Test Date	19/01/2023
		Client PO No	4897
Inspection Location	Blue Manta - High Wycombe	Project / Job No	415897

Client ID No	BM-SRR-003
Description of Item	21' Open Ended Cargo Basket

Test Specification	ISO 17643	Material Type	Carbon steel
Acceptance Criteria	Report all findings	Coating Thickness	<0.5mm
Work Instruction	JI-WI-014	Welding Process	Unknown
Material Thickness	> 6mm	Heat Treatment	Unknown
Joint Geometry	Butt & Tee		
Surface Preparation	Brushed		
Test Restrictions	Nil		

ET Unit Type	Olympus Nortec 600	Serial Number	JIET4
Calibration Due Date	01/03/2023	Test Block S/N	JIET4CB

Probe Type	Serial No	Frequency	Gain (dB)	Phase Angle	Sensitivity
Absolute	JIET4 (A)	10kHz	52 H&V	335°	FSH, 1 shim
Differential	JIET4-5 (D)	100kHz	76 H&V	138°	80% FSH, 1 shim, 1mm slot

Area or location of inspections, Including scanning patterns

Scanning Patterns: As per work instruction JI-WI-014

100% Weld cap + up to 50mm HAZ on 4 x welded lift points

RESULTS
Pass - No Discontinuities Detected

Inspector	Devyn Jupp	Report Expiry Date	19/01/2027
Approved Signatory Name	Adam O'Connell	 WORLD RECOGNISED ACCREDITATION	NDT Facility Accredited for compliance with ISO/IEC 17025 - Testing Accreditation No: 20435 Site Number: 24534
Signature			
Report Issue Date	24/01/2023		

Eddy Current Test

Client	Blue Manta Pty Ltd	Report No	415897.0047
Client Address	103 Milner Road High Wycombe WA Australia 6057	Test Date	19/01/2023
		Client PO No	4897
Inspection Location	Blue Manta - High Wycombe	Project / Job No	415897

Client ID No	BM-SRR-003/1
Description of Item	4 Leg wire rope sling.

Test Specification	ISO 17643	Material Type	Carbon steel
Acceptance Criteria	Report all findings	Coating Thickness	<0.5mm
Work Instruction	JI-WI-014	Welding Process	Unknown
Material Thickness	> 6mm	Heat Treatment	Unknown
Joint Geometry	Butt		
Surface Preparation	Brushed		
Test Restrictions	Nil		

ET Unit Type	Olympus Nortec 600	Serial Number	JIET4
Calibration Due Date	01/03/2023	Test Block S/N	JIET4CB

Probe Type	Serial No	Frequency	Gain (dB)	Phase Angle	Sensitivity
Absolute	JIET4 (A)	10kHz	52 H&V	335°	FSH, 1 shim
Differential	JIET4-5 (D)	100kHz	76 H&V	138°	80% FSH, 1 shim, 1mm slot

Area or location of inspections, Including scanning patterns

Scanning Patterns: As per work instruction JI-WI-014

100% Quad Assembly

RESULTS
Pass - No Discontinuities Detected

Inspector	Devyn Jupp	Report Expiry Date	19/01/2027
Approved Signatory Name	Adam O'Connell	 WORLD RECOGNISED ACCREDITATION	NDT Facility Accredited for compliance with ISO/IEC 17025 - Testing Accreditation No: 20435 Site Number: 24534
Signature			
Report Issue Date	24/01/2023		

Q1519.5A (Prototype)

Offshore Prototype Test Report

Report No.:-

YM2420/15

Cust.:- Blue Manta (Asia) Pty Ltd

Desc.:- 21' Open Ended Cargo Basket

Serial No.:- BM-SRR-001 TO
BM-SRR-008

Cust Ref.:- 0000018123

Design No. :- BMD-1236

BM-SRR-001

YMC SOR No.:- 14595

Total Quan.:- 8

Max Gross Weight (R) in kg:-

12,000

Tare Weight (T) in kg:-

2,000

Payload (P) in kg:-

10,000

FOUR POINT LIFT TEST according to DNV 2.7-1 section 4.6.3.2

The container was loaded to a total mass equal to $(2.5 \times R) - T = 28,000$ kg.

The container was then lifted using all four lifting points and left suspended for five minutes. There was no visible deflection greater than 1/300 of span member during the test. There were no signs of significant permanent deformation or other damage after the test. The test was considered satisfactory.

TWO POINT DIAGONAL LIFT TEST according to DNV 2.7-1 section 4.6.3.3

The container was loaded to a total mass equal to $(1.5 \times R) - T = 16,000$ kg.

The container was then lifted using two diagonally opposing lifting points and left suspended for five minutes. There was no visible deflection greater than 1/300 of span member during the test. There were no signs of significant permanent deformation or other damage after the test. The test was considered satisfactory.

VERTICAL IMPACT TEST according to DNV 2.7-1 section 4.6.4.1

The container was loaded to a total mass equal to $P = 10,000$ kg.

The container was then lifted to a height of 400mm maximum* and dropped so as to impact onto a corner with the lowest rigidity. (* equals at least the greatest height difference between the highest and the lowest point of a unit's underside). There were no signs of significant permanent deformation or other damage after the test. The test was considered satisfactory.

ONLY if fitted - UNLADEN INNER FORK POCKET LIFT TEST according to DNV 2.7-1 section 4.6.5

Fitted? NO ☐ YES ☐ The container was loaded to a total mass equal to $(0.625 \times R) - T = 5,500$ kg. after having been supported on special beams passing through the (inner) fork pockets. The container was then left suspended for five minutes. There was no visible deflection greater than 1/300 of span member during the test. There were no signs of significant permanent deformation or other damage after the test. The test was considered satisfactory.

NON DESTRUCTIVE TESTING according to BS-EN 25817: 2003 Q/Level B (Stringent) BS-EN 970: 1997

After the above tests the container was inspected using Magnetic Partical Inspection Techniques. There were no defects found (see separate MPI Report for this unit).

This container was considered to have passed all the above tests satisfactorily.

Yorkshire Marine Containers Ltd. Test Station Stamp & Operator Signature:-

Print Name:- S KEOGH

Date:- 16-7-15

YORKSHIRE MARINE CONTAINERS LTD.
(STRUCTURAL TEST STATION)
CATFOSS WORKS,
BRANDESBURTON
EAST YORKSHIRE YO25 8ES

This container was considered to have passed all the above tests satisfactorily.

Lloyds Register or DNV Inspector Stamp & Signature:-

Print Name:- P. Gough

Date:- 16-7-2015



Q1519.5A (Batch)

Offshore Batch Test Report

Report No.:-

Ym2420/15

Cust.:- Blue Manta (Asia) Pty Ltd

Desc.:- 21' Open Ended Cargo Basket

Serial No.:- BM-SRR-001 TO

Cust Ref.:- 0000018123

Design No. :- BMD-1236

BM-SRR-008

YMC SOR No.:- 14595

Total Quan.:- 8

Bm-SRR-008

Max Gross Weight (R) in kg:-

12,000

Tare Weight (T) in kg:-

2,000

Payload (P) in kg:-

10,000

Prototype for this design is Unit Serial Number:- BM-SRR-001

FOUR POINT LIFT TEST according to DNV 2.7-1 section 4.6.3.2

The container was loaded to a total mass equal to $(2.5 \times R) - T = 28,000$ kg.

The container was then lifted using all four lifting points and left suspended for five minutes. There was no visible deflection greater than 1/300 of span member during the test. There were no signs of significant permanent deformation or other damage after the test. The test was considered satisfactory.

Only if applicable - WEATHERPROOFNESS TEST according to DNV 2.7-1 section 5.4.2

The container was entered by the Inspector and the doors were then closed. After three minutes to allow the Inspector to become accustomed to the darkness, a powerful light was shone on all exterior surfaces and the Inspector attempted to observe any light penetration. The container was free from any observable light penetration. The test was considered satisfactory.

NON DESTRUCTIVE TESTING according to BS EN ISO 5817: Q/Level B (Stringent) BS EN 17637

After the above test(s) the container was inspected using Magnetic Partical Inspection Techniques. There were no defects found (see separate MPI Report for this unit).

This container was considered to have passed all the above tests satisfactorily.

Yorkshire Marine Containers Ltd. Test Station Stamp & Operator Signature:-

Print Name:- S KEOGH

Date:- 16-7-15

YORKSHIRE MARINE CONTAINERS LTD.
(STRUCTURAL TEST STATION)
CATFOSS WORKS,
BRANDESBURTON
EAST YORKSHIRE YO25 8ES
Telephone: 01964 542146

This container was considered to have passed all the above tests satisfactorily.

Lloyds Register or DNV Inspector Stamp & Signature:-

Print Name:- P Goubert

Date:- 16-7-2015



Q1519.5A (Prototype)

Offshore Prototype Test Report

Report No.:-

YM 2420/15

Cust.:- Blue Manta (Asia) Pty Ltd	Desc.:- 21' Open Ended Cargo Basket	Serial No.:- BM-SRR-001 TO BM-SRR-008
Cust Ref.:- 0000018123	Design No. :- BMD-1236	BM-SRR-0081
YMC SOR No.:- 14595	Total Quan.:- 8	

Max Gross Weight (R) in kg:-

12,000

Tare Weight (T) in kg:-

2,300

Payload (P) in kg:-

9,700

FOUR POINT LIFT TEST according to DNV 2.7-1 section 4.6.3.2The container was loaded to a total mass equal to $(2.5 \times R) - T = 27,700$ kg.

The container was then lifted using all four lifting points and left suspended for five minutes. There was no visible deflection greater than 1/300 of span member during the test. There were no signs of significant permanent deformation or other damage after the test. The test was considered satisfactory.

TWO POINT DIAGONAL LIFT TEST according to DNV 2.7-1 section 4.6.3.3The container was loaded to a total mass equal to $(1.5 \times R) - T = 15,700$ kg.

The container was then lifted using two diagonally opposing lifting points and left suspended for five minutes. There was no visible deflection greater than 1/300 of span member during the test. There were no signs of significant permanent deformation or other damage after the test. The test was considered satisfactory.

VERTICAL IMPACT TEST according to DNV 2.7-1 section 4.6.4.1The container was loaded to a total mass equal to $P = 9,700$ kg.

The container was then lifted to a height of 400mm maximum* and dropped so as to impact onto a corner with the lowest rigidity. (* equals at least the greatest height difference between the highest and the lowest point of a unit's underside). There were no signs of significant permanent deformation or other damage after the test. The test was considered satisfactory.

ONLY if fitted - LADEN (OUTER) FORK POCKET LIFT TEST according to DNV 2.7-1 section 4.6.5Fitted? NO ☐ YES ☒ The container was loaded to a total mass equal to $(1.6 \times (R+S)) - T = 17,220$ kg.

after having been supported on special beams passing through the (outer) fork pockets. The container was then left suspended for five minutes. There was no visible deflection greater than 1/300 of span member during the test. There were no signs of significant permanent deformation or other damage after the test. The test was considered satisfactory.

ONLY if fitted - UNLADEN INNER FORK POCKET LIFT TEST according to DNV 2.7-1 section 4.6.5Fitted? NO ☐ YES ☐ The container was loaded to a total mass equal to $(0.625 \times R) - T = 5,200$ kg.

after having been supported on special beams passing through the (inner) fork pockets. The container was then left suspended for five minutes. There was no visible deflection greater than 1/300 of span member during the test. There were no signs of significant permanent deformation or other damage after the test. The test was considered satisfactory.

NON DESTRUCTIVE TESTING according to BS-EN 25817: 2003 Q/Level B (Stringent) BS-EN 970: 1997

After the above tests the container was inspected using Magnetic Partical Inspection Techniques. There were no defects found (see separate MPI Report for this unit).

This container was considered to have passed all the above tests satisfactorily.

Yorkshire Marine Containers Ltd. Test Station Stamp & Operator Signature:-

Print Name:- S KEOGH

Date:- 27/8/15

YORKSHIRE MARINE CONTAINERS LTD.
(STRUCTURAL TEST STATION)
 CATFOSS WORKS,
 BRANDESBURTON
 EAST YORKSHIRE YO25 8ES

Telephone: 01964 542146

This container was considered to have passed all the above tests satisfactorily.

Lloyds Register or DNV Inspector Stamp & Signature:-

Print Name:- J. Goubert

Date:-



Q1519.5A (Batch)

Offshore Batch Test Report

Report No.:-

Ym2426/15

Cust.:- Blue Manta (Asia) Pty Ltd

Desc.:- 21' Open Ended Cargo Basket

Serial No.:- BM-SRR-001 TO
BM-SRR-008

Cust Ref.:- 0000018123

Design No. :- BMD-1236

BM-SRR-008

YMC SOR No.:- 14595

Total Quan.:- 8

Max Gross Weight (R) in kg:-

12,000

Tare Weight (T) in kg:-

2,300

Payload (P) in kg:-

9,700

Prototype for this design is Unit Serial Number:- BM-SRR-001

FOUR POINT LIFT TEST according to DNV 2.7-1 section 4.6.3.2The container was loaded to a total mass equal to $(2.5 \times R) - T = 27,700$ kg.

The container was then lifted using all four lifting points and left suspended for five minutes. There was no visible deflection greater than 1/300 of span member during the test. There were no signs of significant permanent deformation or other damage after the test. The test was considered satisfactory.

Only if applicable - WEATHERPROOFNESS TEST according to DNV 2.7-1 section 5.4.2

The container was entered by the Inspector and the doors were then closed. After three minutes to allow the Inspector to become accustomed to the darkness, a powerful light was shone on all exterior surfaces and the Inspector attempted to observe any light penetration. The container was free from any observable light penetration. The test was considered satisfactory.

NON DESTRUCTIVE TESTING according to BS EN ISO 5817: Q/Level B (Stringent) BS EN 17637

After the above test(s) the container was inspected using Magnetic Partical Inspection Techniques. There were no defects found (see separate MPI Report for this unit).

This container was considered to have passed all the above tests satisfactorily.

Yorkshire Marine Containers Ltd. Test Station Stamp & Operator Signature:-

Print Name:- SKEOGH

Date:- 27-8-15

YORKSHIRE MARINE CONTAINERS LTD.
(STRUCTURAL TEST STATION)
 CATFOSS WORKS,
 BRANDESBLURTON
 EAST YORKSHIRE YO25 8ES
 Telephone: 01964 542146

This container was considered to have passed all the above tests satisfactorily.

Lloyds Register or DNV Inspector Stamp & Signature:-

Print Name:- P. Gorbett

Date:-





Offshore Container Construction Certificate

Name of Manufacturer:	Address:
Thurston Group Limited - YMCL	Quarry Hill Estate Horbury Wakefield, UK WF4 6AJ

This is to certify that the under noted Offshore Container, which was manufactured and tested in accordance with the requirements of Lloyd's Register Group Container Certification Scheme, has been inspected and found to be in accordance with the approved drawings and the prototype container identified as follows:

Offshore Container Type Description:		Number of Lifting Lugs:	
21FT Open Ended Cargo basket		4	
Max. Gross Mass (Rating):	Tare Mass:	Payload:	
12000kg	2300 kg	9700kg	
External Dimensions (LxWxH):		Design Temperature:	
6400 mm	1460 mm	1630 mm	-20 °C
Lloyd's Register Group Type Approval No.:		Assembly Drawing No.:	
GB - LR 63772 10/14		BMD-1236-1/A	
Purchaser:		Date of Manufacture	
BLUE MANTA ASIA PTY LTD		09/2015	
Container Model No.:	Manufacturer's Serial No. / Owners No.	Inspection Type Date / Inspection Type	
BMD-1236	BM-SRR-003 / BM-SRR-003	08/09/2015 VN	

Specification of lifting set. This certificate is only valid when the container is fitted with approved lifting set.

Min. shackle bolt diameter:	Max. angle of legs (from vertical):	Enhancement factor
28mm	45°	1.413

Proof testing:

This offshore container, or another offshore container from the same fabrication series, has been subjected to the following proof test:

Manufacturer's Serial No. of container tested:	Minimum total test load (including Tare Weight):	Test date:
BM-SRR-001, BM-SRR-008	30,000 kg	08/2015

The container also complies with the following requirements and regulations:

DNV 2.7-1 (2013), EN12079:2006, in support of IMO MSC Circ 860, LRCCS 2015

Remarks:

Issued at **Coventry**

on **03/11/2015**



Digitally signed
by Dave Sole

On Behalf Of Paul Gough
Surveyor To Lloyds Register EMEA

A member of the Lloyd's Register Group

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