

GOUTAMA WEIGHTS & TESTING PTE LTD

38 Loyang Drive #01-00 Singapore 508960 Email: admin@goutama.biz Website: www.goutama.biz Company Reg No. 200306541C

REPORT OF THOROUGH EXAMINATION

This report complies with the requirements of the Lifting Operations Lifting Equipment Regulations 1998

		Internal Ref. No. : SRJ2023-1004	
Date of Thorough Examination: 30TH AUGUST 2023		Date of Report: 30TH AUGUST 2023	
		Report number: GWT-RC-23-M4001	
Name and Address of employer for whom the thorough examination was made: BUMI SUBSEA SOLUTIONS SDN BHD NO. 16, SETIA BUSINESS PARK, JALAN LAMAN SETIA 7/4, TAMAN LAMAN SETIA, 81550 JOHOR BAHRU, JOHOR MALAYSIA		Address of premises at which the examination was made: BUMI SUBSEA YARD, JOHOR, MALAYSIA	
Distinguishing/ ID Number: SES/FAL01/CV	Description and identification of the equipment: <u>FALCON 01 ROV SYSTEM</u> CONTROL VAN WELDED STEEL CONSTRUCTION C/W 4 TOP CORNER MOUNTED LIFTING PAD EYES DIMENSION : 4270MM L X 2438MM W X 2590MM H	Quantity: 1 UNIT	Mass / Max. Gross Weight (MGW): MGW = 8,000 KG
			Date of Manufacture if known: UNKNOWN
			Date of last thorough examination: 09.2022
Is this the first examination after installation or assembly at a new site or location? YES ☐ NO ☒		Was the examination carried out: Within an interval of 6 months? YES ☐ Within an interval of 12 months? YES ☒	
If the answer to the above question is YES has the equipment been installed correctly? YES ☐ N.A ☐ NO ☐ N.A ☐		In accordance with an examination scheme? YES ☐ After the occurrence of exceptional circumstances? YES ☐	
Identification of any part found to have a defect which is or could become a danger to persons and a description of the defect : NONE			
Is the above a defect which is of immediate danger to persons		YES ☐	N.A ☐ NO ☐ N.A ☐
Is the above a defect which is not yet but could become a danger to persons (If YES state the date by when):		N.A ☐ YES by: N.A ☐	
Particulars of any repair, renewal or alteration required to remedy the defect identified above: NONE			
Particulars of any tests carried out as part of the examination : VISUAL EXAMINATION ON 4X LIFTING PAD EYES WELDMENT AREAS		Codes / Standard: IN ACCORDANCE TO BS EN ISO 10855	
IS THIS EQUIPMENT FIT FOR PURPOSE?		YES ☒	NO ☐
Name & Qualifications of person making this report: MHAWARI MRAZALI ENGINEER	Name of person authenticating this report: RAHMAN ABDULLAH EXAMINER	Latest date by which next thorough examination must be carried out: 29TH AUGUST 2024	
Acknowledged / Witnessed By: (If Applicable)			

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REPORT OF THOROUGH EXAMINATION

This report complies with the requirements of the Lifting Operations Lifting Equipment Regulations 1998

Internal Ref. No. : **SRJ2023-1004**

Date of Thorough Examination: **30TH AUGUST 2023**

Date of Report: **30TH AUGUST 2023**

Report number: **GWT-RC-23-M4002**

Name and Address of employer for whom the thorough examination was made:

**BUMI SUBSEA SOLUTIONS SDN BHD
NO. 16, SETIA BUSINESS PARK, JALAN LAMAN SETIA 7/4,
TAMAN LAMAN SETIA, 81550 JOHOR BAHRU, JOHOR MALAYSIA**

Address of premises at which the examination was made:

**BUMI SUBSEA YARD,
JOHOR, MALAYSIA**

Distinguishing/
ID Number:

4BSS.FAL01CV

Description and identification of the equipment:

FALCON 01 ROV SYSTEM

**4 LEGGED WIRE ROPE LIFTING SLING, CONSIST OF:-
1 SET QUAD MASTERLINK ASSY. Q28B
4 LGTHS. 20MM DIA. X 5M LENGTH WIRE ROPE SLING
ALL SLINGS GALV'D STEEL WIRE ROPE, IWRC
BOTH ENDS FERRULE SECURED WITH THIMBLE
EYES
4 PCS. G-4163 GREEN PIN STANDARD BOW SHACKLES
WITH SAFETY BOLT WLL 6.5t**

**REMARK :
LIFTING SLING FOR FALCON CV (ID: SES/FAL01/CV)**

Quantity:

1 SET

Safe Working
Load (SWL):

**11 t
@ 0-45°**

Date of
Manufacture
if known:

UNKNOWN

Date of last
thorough
examination:

09.2022

Is this the first examination after installation
or assembly at a new site or location?

YES ☐ NO ☒

If the answer to the above question is YES
has the equipment been installed correctly?

YES ☐ N.A ☐ NO ☐ N.A ☐

Was the examination carried out:

Within an interval of 6 months?

YES ☒

Within an interval of 12 months?

YES ☐

In accordance with an examination scheme?

YES ☐

After the occurrence of exceptional circumstances?

YES ☐

Identification of any part found to have a defect which is or could become a danger to persons and a description of the defect : **NONE**

Is the above a defect which is of immediate danger to persons

YES ☐ N.A ☐ NO ☐ N.A ☐

Is the above a defect which is not yet but could become a danger to persons (If YES state the date by when):

N.A YES by: **N.A**

Particulars of any repair, renewal or alteration required to remedy the defect identified above: **NONE**

Particulars of any tests carried out as part of the examination :

**VISUAL INSPECTION AND NDT (MAGNETIC PARTICLE INSPECTION)
ON QUAD MASTERLINK ASSY. AND SHACKLES
(REFER TO NDT REPORT NO. GWRP-2308-M4-01)**

Codes / Standard:

IN ACCORDANCE TO BS EN 13414-1 / BS EN 1677 / BS EN 13889

IS THIS EQUIPMENT FIT FOR PURPOSE?

YES ☒ NO ☐

Name & Qualifications of person making this report:

**MHAWARI MRAZALI
ENGINEER**

Name of person authenticating this report:

**RAHMAN ABDULLAH
EXAMINER**



Latest date by which next thorough
examination must be carried out:

29TH FEBRUARY 2024

Acknowledged / Witnessed By:
(If Applicable)

GOUTAMA WEIGHTS & TESTING PTE LTD

38 Loyang Drive #01-00 Singapore 508960 Email: admin@goutama.biz Website: www.goutama.biz Company Reg No. 200306541C

Report No.:
GWRP-2308-M4-01

Internal Ref. No.:
SRJ2023-1004

Date of Report:
30TH AUGUST 2023

Location of Test:
BUMI SUBSEA YARD, JOHOR MALAYSIA

NON-DESTRUCTIVE EXAMINATION REPORT

General Scope of Activity : MAGNETIC PARTICLE INSPECTION		Date of all related activity : 30 TH AUGUST 2023	
Description of Item(s) : LIFTING SLING FOR FALCON CV	ID / Serial No. : 4BSS.FAL01CV	Client / Owner: BUMI SUBSEA SOLUTIONS SDN. BHD. NO. 16, SETIA BUSINESS PARK, JALAN LAMAN SETIA 7/4 TAMAN LAMAN SETIA 81550 JOHOR BAHRU, JOHOR MALAYSIA	
Vessel / Project / System Name : FALCON ROV SYSTEM			
Material Type : Carbon Steel	Test Spec./ Standard : AWS D1.1	Internal S.O.P Ref. : GWT-SOP-MT-001 Rev.2	
MT Equipment : ☒ Yoke ☐ Other	Equipment's Model : B310PDC		
Current Type : ☐ AC ☒ DC	Equipment's Serial No. : 13791 (Calib. Due On 10 April 2024)		
MT Particle : ☐ Visible ☐ Fluorescent ☒ Wet ☐ Dry			
Light Intensity : 1000 lux	Light Source : Natural Lighting	Temperature : AMBIENT	
Surface Condition : ☒ As welded ☐ As machined ☐ As Ground ☐ Solvent Wipe			
Method removing excess surface : Wire Brush	Cleaning after removing excess surface : Wiping		
MT Brand's Name/ Type : MAGNAVIS®	Contrast Paint : White WCP-2	Colour Contrast : Prepared Bath 7HF	
Application : ☐ Brush ☒ Spray ☐ Other			
Examination Method : ☒ Continuous ☐ Field Strength Check ☐ Other			
Scope of Examination	☒ Base Metal ☐ Edge Prep. ☐ Back Chipping ☐ Weld Part ☐ Repair Weld ☐ Others		

No.	Description	Area of Inspect	Result		Types of Discontinuities	From "0" (mm)	Length (mm)	Remark
			Accepted	Rejected				
1	Quad Masterlink Assy.	Entire Body	√	-	N/A	N/A	N/A	Satisfactory
2	Shackle #1 WLL 6.5t	Entire Body	√	-	N/A	N/A	N/A	Satisfactory
3	Shackle #2 WLL 6.5t	Entire Body	√	-	N/A	N/A	N/A	Satisfactory
4	Shackle #3 WLL 6.5t	Entire Body	√	-	N/A	N/A	N/A	Satisfactory
5	Shackle #4 WLL 6.5t	Entire Body	√	-	N/A	N/A	N/A	Satisfactory

Attachment :

Comment :

The items described as per above were tested thereafter examined and were found to be free from cracks, flaws or other visible defects at the time of inspection.

Examined by :

A. FAIZAL
(ASNT Level II MT)

GOUTAMA WEIGHTS & TESTING PTE LTD

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REPORT OF THOROUGH EXAMINATION

This report complies with the requirements of the Lifting Operations Lifting Equipment Regulations 1998

Internal Ref. No. : **SRJ2023-1004**

Date of Thorough Examination: 30TH AUGUST 2023	Date of Report: 30TH AUGUST 2023	Report number: GWT-RC-23-M4003
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Name and Address of employer for whom the thorough examination was made: BUMI SUBSEA SOLUTIONS SDN BHD NO. 16, SETIA BUSINESS PARK, JALAN LAMAN SETIA 7/4, TAMAN LAMAN SETIA, 81550 JOHOR BAHRU, JOHOR MALAYSIA	Address of premises at which the examination was made: BUMI SUBSEA YARD, JOHOR, MALAYSIA
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Distinguishing/ ID Number:	Description and identification of the equipment:	Quantity:	Mass / Max. Gross Weight (MGW):	Date of Manufacture if known:	Date of last thorough examination:
FALCON 01	<u>FALCON 01 ROV SYSTEM</u> SEAEYE FALCON REMOTELY OPERATED VEHICLE (ROV) FRAME ASSEMBLY AND FASTENERS, C/W TOP CENTRE LIFTING POINT DIMENSION: 1.0 M x 0.5 M x 0.5 M	1 UNIT	WEIGHT IN AIR = 82 KG PAYLOAD = 14 KG	UNKNOWN	2022

Is this the first examination after installation or assembly at a new site or location?	YES		NO	☒	Was the examination carried out: Within an interval of 6 months?	YES	
If the answer to the above question is YES has the equipment been installed correctly?	YES	N.A	NO	N.A	Within an interval of 12 months?	YES	☒
					In accordance with an examination scheme?	YES	
					After the occurrence of exceptional circumstances?	YES	

Identification of any part found to have a defect which is or could become a danger to persons and a description of the defect : **NONE**

Is the above a defect which is of immediate danger to persons	YES	N.A	NO	N.A
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Is the above a defect which is not yet but could become a danger to persons (If YES state the date by when):	N.A	YES by: N.A
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Particulars of any repair, renewal or alteration required to remedy the defect identified above: **NONE**

Particulars of any tests carried out as part of the examination : VISUAL INSPECTION AND NDT (DYE PENETRANT INSPECTION) ON TOP CENTRE LIFTING POINT (REFER TO NDT REPORT NO. GWDN-2308-M4-01)	Codes / Standard: IN ACCORDANCE TO IMCA TECHNICAL GUIDANCE
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IS THIS EQUIPMENT FIT FOR PURPOSE?	YES	☒	NO	
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Name & Qualifications of person making this report: MHAWARI MRAZALI ENGINEER	Name of person authenticating this report: RAHMAN ABDULLAH EXAMINER 	Latest date by which next thorough examination must be carried out: 29TH AUGUST 2024
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Acknowledged / Witnessed By:
(If Applicable)

GOUTAMA WEIGHTS & TESTING PTE LTD

38 Loyang Drive #01-00 Singapore 508960 Email: admin@goutama.biz Website: www.goutama.biz Company Reg No. 200306541C

Report No.:
GWDN-2308-M4-01

Internal Ref. No.:
SRJ2023-1004

Date of Report:
30TH AUGUST 2023

Location of Test:
BUMI SUBSEA YARD, JOHOR MALAYSIA

NON-DESTRUCTIVE EXAMINATION REPORT

General Scope of Activity : DYE PENETRANT INSPECTION		Date of all related activity : 30 TH AUGUST 2023
Description of Item(s) : SEAYE FALCON ROV	ID / Serial No. : NIL	Client / Owner: BUMI SUBSEA SOLUTIONS SDN. BHD. NO. 16, SETIA BUSINESS PARK, JALAN LAMAN SETIA 7/4 TAMAN LAMAN SETIA 81550 JOHOR BAHRU, JOHOR MALAYSIA
Vessel / Project / System Name : FALCON ROV SYSTEM		

Material Type : Stainless Steel	Test Spec./ Standard : ASTM E165	Internal S.O.P Ref. : GWT-SOP-PT-001 Rev.2
Penetrant Type Method : ☐ Visible ☒ Solvent Removable ☐ Other		
Brand's Name/ Type : Magnaflux	Penetrant : SKL-SP2	Cleaner : SKC-S Developer : SKD-S2
Penetrant Application : ☐ Brush ☒ Spray	Dwell Time : 10-15 minutes	Temperature : AMBIENT
Light Intensity : 1000 lux	Light Source : Natural Lighting	
Method removing excess penetrant : Solvent Wipe		Drying after removing excess penetrant : Wiping
Developer Application : ☐ Dry ☒ Wet - Spray Developer Time : 10 minutes		
Surface Preparation : ☐ As welded ☐ Machining ☒ As Ground		
Time of Examination : ☐ After Welding ☐ After Hydro-test ☐ After PWHT ☒ As Ground		
Scope of Examination ☒ Base Metal ☐ Edge Prep. ☐ Back Chipping ☒ Weld Part ☐ Repair Weld ☐ Others		

No.	Description	Area of Inspect	Result		Types of Discontinuities	From "0" (mm)	Length (mm)	Remark
			Accepted	Rejected				
1	Top Centre Lifting Point	Body, Weldment include pin	√	-	N/A	N/A	N/A	Satisfactory
2	Lifting Bullet and pin		√	-	N/A	N/A	N/A	Satisfactory

***** End of List *****

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Attachment :

Comment :

The items described as per above were tested thereafter examined and were found to be free from cracks, flaws or other visible defects at the time of inspection.

Examined by :

RHYO W.
ASNT Level II PT

GOUTAMA WEIGHTS & TESTING PTE LTD

38 Loyang Drive #01-00 Singapore 508960 Email: admin@goutama.biz Website: www.goutama.biz Company Reg No. 200306541C

REPORT OF THOROUGH EXAMINATION

This report complies with the requirements of the Lifting Operations Lifting Equipment Regulations 1998

Internal Ref. No. : **SRJ2023-1004**

Date of Thorough Examination: **30TH AUGUST 2023**

Date of Report: **30TH AUGUST 2023**

Report number: **GWT-RC-23-M4004**

Name and Address of employer for whom the thorough examination was made:

**BUMI SUBSEA SOLUTIONS SDN BHD
NO. 16, SETIA BUSINESS PARK, JALAN LAMAN SETIA 7/4,
TAMAN LAMAN SETIA, 81550 JOHOR BAHRU, JOHOR MALAYSIA**

Address of premises at which the examination was made:

**BUMI SUBSEA YARD,
JOHOR, MALAYSIA**

Distinguishing/ ID Number:	Description and identification of the equipment:	Quantity:	Safe Working Load (SWL):	Date of Manufacture if known:	Date of last thorough examination:
8567 6	<u>FALCON ROV SYSTEM</u> G-4163 GREEN PIN STANDARD BOW SHACKLE WITH SAFETY BOLT	1 NO.	2 t	UNKNOWN	2022
SN 2	BST STANDARD BOW SHACKLES WITH SAFETY BOLT	1 NO.	2 t	UNKNOWN	2022
A16	GRS PWB 'D' TYPE SCREW PIN SHACKLES	1 NO.	1.5 t	UNKNOWN	2022

Is this the first examination after installation
or assembly at a new site or location?

YES ☐ NO ☒

If the answer to the above question is YES
has the equipment been installed correctly?

YES ☐ N.A ☐ NO ☐ N.A ☐

Was the examination carried out:

Within an interval of 6 months?

YES ☒

Within an interval of 12 months?

YES ☐

In accordance with an examination scheme?

YES ☐

After the occurrence of exceptional circumstances?

YES ☐

Identification of any part found to have a defect which is or could become a danger to persons and a description of the defect : **NONE**

Is the above a defect which is of immediate danger to persons

YES ☐ N.A ☐ NO ☐ N.A ☐

Is the above a defect which is not yet but could become a danger to persons (If YES state the date by when):

N.A YES by: **N.A**

Particulars of any repair, renewal or alteration required to remedy the defect identified above: **NONE**

Particulars of any tests carried out as part of the examination :

**VISUAL INSPECTION AND NDT (MAGNETIC PARTICLE
INSPECTION) ON SHACKLES INCLUDE PIN
(REFER TO NDT REPORT NO. GWRP-2308-M4-02)**

Codes / Standard:

IN ACCORDANCE BS EN 13889

IS THIS EQUIPMENT FIT FOR PURPOSE?

YES ☒ NO ☐

Name & Qualifications of person making this report:

**MHAWARI MRAZALI
ENGINEER**

Name of person authenticating this report:

**RAHMAN ABDULLAH
EXAMINER**



Latest date by which next thorough
examination must be carried out:

30TH FEBRUARY 2024

Acknowledged / Witnessed By:
(If Applicable)

GOUTAMA WEIGHTS & TESTING PTE LTD

38 Loyang Drive #01-00 Singapore 508960 Email: admin@goutama.biz Website: www.goutama.biz Company Reg No. 200306541C

Report No.:
GWRP-2308-M4-02

Internal Ref. No.:
SRJ2023-1004

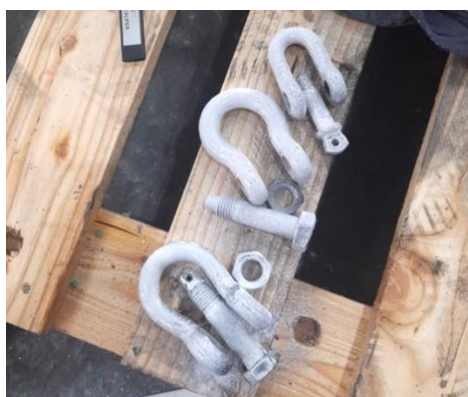
Date of Report:
30TH AUGUST 2023

Location of Test:
BUMI SUBSEA YARD, JOHOR MALAYSIA

NON-DESTRUCTIVE EXAMINATION REPORT

General Scope of Activity : MAGNETIC PARTICLE INSPECTION		Date of all related activity : 30 TH AUGUST 2023	
Description of Item(s) : SHACKLES	ID / Serial No. : AS PER BELOW	Client / Owner: BUMI SUBSEA SOLUTIONS SDN. BHD. NO. 16, SETIA BUSINESS PARK, JALAN LAMAN SETIA 7/4 TAMAN LAMAN SETIA 81550 JOHOR BAHRU, JOHOR MALAYSIA	
Vessel / Project / System Name : FALCON ROV SYSTEM			
Material Type : Carbon Steel	Test Spec./ Standard : AWS D1.1	Internal S.O.P Ref. : GWT-SOP-MT-001 Rev.2	
MT Equipment : ☒ Yoke ☐ Other	Equipment's Model : B310PDC		
Current Type : ☐ AC ☒ DC	Equipment's Serial No. : 13791 (Calib. Due On 10 April 2024)		
MT Particle : ☐ Visible ☐ Fluorescent ☒ Wet ☐ Dry			
Light Intensity : 1000 lux	Light Source : Natural Lighting	Temperature : AMBIENT	
Surface Condition : ☐ As welded ☐ As machined ☒ As Ground ☐ Solvent Wipe			
Method removing excess surface : Wire Brush		Cleaning after removing excess surface : Wiping	
MT Brand's Name/ Type : MAGNAVIS®		Contrast Paint : White WCP-2	Colour Contrast : Prepared Bath 7HF
Application : ☐ Brush ☒ Spray ☐ Other			
Examination Method : ☒ Continuous ☐ Field Strength Check ☐ Other			
Scope of Examination ☒ Base Metal ☐ Edge Prep. ☐ Back Chipping ☐ Weld Part ☐ Repair Weld ☐ Others			

No.	Description	Area of Inspect	Result		Types of Discontinuities	From "0" (mm)	Length (mm)	Remark
			Accepted	Rejected				
1	Shackle , ID : 8567 6	Entire Body include pin	√	-	N/A	N/A	N/A	Satisfactory
2	Shackle , ID : SN 2	Entire Body include pin	√	-	N/A	N/A	N/A	Satisfactory
3	Shackle , ID : A16	Entire Body include pin	√	-	N/A	N/A	N/A	Satisfactory

Attachment :

Comment :

The items described as per above were tested thereafter examined and were found to be free from cracks, flaws or other visible defects at the time of inspection.

Examined by :

A. FAIZAL
(ASNT Level II MT)

REPORT OF THOROUGH EXAMINATION

This report complies with the requirements of the Lifting Operations Lifting Equipment Regulations 1998

Report No. : GWT-RC-23-M4005		Date of Report : 30TH AUGUST 2023		Project / Vessel Name : FALCON ROV SYSTEM			Internal Ref. No.: SRJ2023-1004			Colour Code (if required): N/A			
Name & Address of the employer for whom the examination was made : BUMI SUBSEA SOLUTIONS SDN BHD NO. 16, SETIA BUSINESS PARK, JALAN LAMAN SETIA 7/4, TAMAN LAMAN SETIA, 81550 JOHOR BAHRU, JOHOR, MALAYSIA					Address of the premises at which the examination was made : BUMI SUBSEA YARD JOHOR, MALAYSIA					Status : ND – No Defect SDR – See Defect Report NF – Not Found			
No.	ID / Serial No.	Description	Size / Dimension	Capacity	Manufacturer	Date of Manufacturer	Date of Last Thorough Examination	Date of this Thorough Examination	Latest date of the next thorough examination	Reason for Examination (See Below)	Details of any test	Status (See above)	Safe to Use (Yes or No)
1	1084	FULL BODY HARNESS	TYPE : 141060 / BATCH NO. : 13035 MATERIAL : POLYESTER	310 LB. (141 KG)	PROGUARD®	03.2014	2022	30.08.2023	29.02.2024	B	VISUAL	ND	YES
2	062183	FULL BODY HARNESS	LOT : 1075 / MODEL NO. : AB17510A SIZE : STD / MATERIAL : POLYESTER	310 LB. (141 KG)	PROTECTA® FIRST™	05.2010	2022	30.08.2023	29.02.2024	B	VISUAL	ND	YES
3	04039 (FS503-PG-0.30M/ 04039)	DOUBLE LEG ROPE LANYARD WITH SHOCK ENERGY ABSORBER	MAX. ALLOWABLE LENGTH OF ENERGY ABSORBER + LANYARD : 2.0M REF. : PG300/S740-0.30M	310 LB. (141 KG)	PROGUARD®	01.2014	2022	30.08.2023	29.02.2024	B	VISUAL	ND	YES
4	1018362	SINGLE LEG WEBBING LANYARD WITH ENERGY ABSORBER	MAX. LENGTH : 1.83 M / TYPE 2 LOT NO. : 08080708 / MODEL NO. : 1300101	310 LB. (141 KG)	PROTECTA® FIRST™	08.2008	2022	30.08.2023	29.02.2024	B	VISUAL	ND	YES
5	1019139	SINGLE LEG WEBBING LANYARD WITH ENERGY ABSORBER	MAX. LENGTH : 1.83 M / TYPE 2 LOT NO. : 08093008 / MODEL NO. : 1300101	310 LB. (141 KG)	PROTECTA® FIRST™	09.2008	2022	30.08.2023	29.02.2024	B	VISUAL	ND	YES
Reason for Examination : [(A : Installation) ; (B : 6 Monthly) ; (C : 12 Monthly) ; (D : 5 Yearly) ; (E : Exceptional Circumstance)]						Test / Inspection Specification : IN ACCORDANCE TO OSHA REQUIREMENTS FOR ENGINEERED FALL PROTECTION SYSTEM RE-CERTIFICATION AND PPE INSPECTION / BS EN 361 / BS EN 355 / ANSI Z359.1							
Name & Qualifications of the person making this report : M.HAWARI M.R ENGINEER					Name of the person authenticating this report : RAHMAN ABDULLAH EXAMINER					Acknowledged By ;- (If Applicable)			

