



CERTIFICATE NUMBER  
EFFECTIVE DATE  
EXPIRY DATE  
ABS TECHNICAL OFFICE

23-2397437-PDA  
28-Sep-2023  
27-Sep-2028  
Houston ESD - Ship Equipment

## CERTIFICATE OF Product Design Assessment

This is to certify that a representative of this Bureau did, at the request of

**VAN BEEST B.V.**

located at

**P.O. BOX 57, 3360 AB SLIEDRECHT , SLIEDRECHT, Netherlands,  
3360 AB**

assess design plans and data for the below listed product. This assessment is a representation by the Bureau as to the degree of compliance the design exhibits with applicable sections of the Rules. This assessment does not waive unit certification or classification procedures required by ABS Rules for products to be installed in ABS classed vessels or facilities. This certificate, by itself, does not reflect that the product is Type Approved. The scope and limitations of this assessment are detailed on the pages attached to this certificate.

**Product:** Loose Gear, Lifting Device, Shackles  
**Model:** G-5261 and G-5263  
**Endorsements:**  
**Tier:** 3 - Type Approved, unit certification not required

This Product Design Assessment (PDA) Certificate remains valid until 27/Sep/2028 or until the Rules and/or Standards used in the assessment are revised or until there is a design modification warranting design reassessment (whichever occurs first).

Acceptance of product is limited to the "Intended Service" details prescribed in the certificate and as per applicable Rules and Standards.

This Certificate is valid for installation of the listed product on ABS units which exist or are under contract for construction on or previous to the effective date of the ABS Rules and standards applied at the time of PDA issuance. Use of the Product for non-ABS units is subject to agreement between the manufacturer and intended client.

American Bureau Of Shipping

*Mohamed C Boukamcha*

Mohamed C Boukamcha,Engineer/Consultant

NOTE: This certificate evidences compliance with one or more of the Rules, Guides, standards or other criteria of ABS or a statutory, industrial or manufacturer's standards. It is issued solely for the use of ABS, its committees, its clients or other authorized entities. Any significant changes to the aforementioned product without approval from ABS will result in this certificate becoming null and void. This certificate is governed by ABS Rules 1-1-A3/5.9 Terms and Conditions of the Request for Product Type Approval and Agreement (2010)

**VAN BEEST B.V.**

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**Tier: 3 - Type Approved, unit certification not required**

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**Product:** Loose Gear, Lifting Device, Shackles

**Model:** G-5261 and G-5263

**Endorsements:**

**Intended Service:**

Loose Gear Items. Use on the Lifting Equipment.

**Description:**

Green Pin Super Shackle

**Rating:**

See attached "pdf" file for size, working load, etc.

Safe Working Load: 3.3t to 55t (G-5261) 3.3t to 120t (G-5263)

Design Factor: 5:1

Design Service Temperature: -20°C

**Service Restriction:**

1. Unit certification is not required for this product. The manufacturer's loose gear test certificate is to be provided to the attending surveyor in accordance with Section 2-5/5.5.1 of the ABS Lifting Appliances Guide. The certificate is to show the distinguishing number or mark applied to the article of gear, description, kind of material, carbon content, date of test, proof load applied, and safe working load. Loose gear certificates are to be inserted in the Register of Lifting Appliances.

2. If the manufacturer or purchaser request an ABS Certificate for compliance with a specification or standard, the specification or standard, including inspection standards and tolerances, must be clearly defined.

3. Prior to installation on a crane certified by ABS, the PDA is to be reviewed for the actual installation.

**Comments:**

1. The Manufacturer has provided a declaration about the control of, or the lack of Asbestos in this product.

2. If full compliance with US Fed Spec RR-C-271H is required, the Surveyor is to verify that the loose gear certificate indicates a proof load of 2.2 x SWL. For compliance with the ABS Lifting Appliances Guide, a proof load of 2 x SWL is required on the loose gear certificate per Section 2-5/1 of the ABS Lifting Appliances Guide.

3. The safe working load is to be marked on the shackles.

**Notes/Drawing/Documentation:**

Drawing No. 2218, Dimensions hexagon nuts MMF06-16 and MUF12-38, Revision: D, Pages: 01

Drawing No. 2219, Drawing, Dimensions hexagon thin nuts MUF 42-83, Revision: G, Pages: 01

Drawing No. 2449, Dimensions hexagon super nuts MUF42H-83H, Revision: O, Pages: 01

**G-5261**

Drawing No. 5550, "Green Pin Super Shackles bow shackles with screw collar pin," SUGHBB13, Revision: A, Pages: 01

Drawing No. 5551, "Green Pin Super Shackles bow shackles with screw collar pin," SUGHBB16, Revision: A, Pages: 01

Drawing No. 5552, "Green Pin Super Shackles bow shackles with screw collar pin," SUGHBB19, Revision: A, Pages: 01

Drawing No. 5553, "Green Pin Super Shackles bow shackles with screw collar pin," SUGHBB22, Revision: A, Pages: 01

Drawing No. 5554, "Green Pin Super Shackles bow shackles with screw collar pin," SUGHBB25, Revision: A, Pages: 01

Drawing No. 5555, "Green Pin Super Shackles bow shackles with screw collar pin," SUGHBB28, Revision: A,

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Pages: 01

Drawing No. 5556, "Green Pin Super Shackles bow shackles with screw collar pin," SUGHBB32, Revision: A, Pages: 01

Drawing No. 5557, "Green Pin Super Shackles bow shackles with screw collar pin," SUGHBB35, Revision: A, Pages: 01

Drawing No. 5558, "Green Pin Super Shackles bow shackles with screw collar pin," SUGHBB38, Revision: A, Pages: 01

Drawing No. 5559, "Green Pin Super Shackles bow shackles with screw collar pin," SUGHBB45, Revision: A, Pages: 01

Drawing No. 5560, "Green Pin Super Shackles bow shackles with screw collar pin," SUGHBB57, Revision: A, Pages: 01

Drawing No. 5561, "Green Pin Super Shackles bow shackles with screw collar pin," SUGHBB70, Revision: B, Pages: 01

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Drawing No. 5125, "Green Pin Super Shackles bow shackles with screw collar pin," SUGHMB13, Revision: A, Pages: 01

Drawing No. 5126, "Green Pin Super Shackles bow shackles with screw collar pin," SUGHMB16, Revision: A, Pages: 01

Drawing No. 5127, "Green Pin Super Shackles bow shackles with screw collar pin," SUGHMB19, Revision: A, Pages: 01

Drawing No. 5128, "Green Pin Super Shackles bow shackles with screw collar pin," SUGHMB22, Revision: A, Pages: 01

Drawing No. 5129, "Green Pin Super Shackles bow shackles with screw collar pin," SUGHMB25, Revision: A, Pages: 01

Drawing No. 5130, "Green Pin Super Shackles bow shackles with screw collar pin," SUGHMB28, Revision: A, Pages: 01

Drawing No. 5131, "Green Pin Super Shackles bow shackles with screw collar pin," SUGHMB32, Revision: A, Pages: 01

Drawing No. 5132, "Green Pin Super Shackles bow shackles with screw collar pin," SUGHMB35, Revision: A, Pages: 01

Drawing No. 5133, "Green Pin Super Shackles bow shackles with screw collar pin," SUGHMB38, Revision: A, Pages: 01

Drawing No. 5134, "Green Pin Super Shackles bow shackles with screw collar pin," SUGHMB45, Revision: A, Pages: 01

Drawing No. 5135, "Green Pin Super Shackles bow shackles with screw collar pin," SUGHMB57, Revision: A, Pages: 01

Drawing No. 5136, "Green Pin Super Shackles bow shackles with screw collar pin," SUGHMB70, Revision: A, Pages: 01

Drawing No. 5137, "Green Pin Super Shackles bow shackles with screw collar pin," SUGHMB83, Revision: C, Pages: 01

Document No. KS-06-05R, Specification material PSt 52-3, Revision: R, Pages: 8

Document No. KS-06-06Q, Specification material SAE 8620, German Standard Number: 1.6523, Revision: Q, Pages: 8

Document No. KS-06-08L, Specification Hexagon nuts Metric and UNC (Inch Series), Revision: L, Pages: 2

Document No. KS-06-14R, Specification Green Pin Shackle pins, Revision: R, Pages: 8

Document No. KS-06-15C, Specification Split pins for Green Pin Shackles with safety bolts, Revision: C, Pages: 2

Document No. KS-06-18I, Specification Green Pin shackle bodies, Revision: I, Pages: 8

Van Beest Test Report No. Proof Load + Actual Break Load test GP Super Screw-pin 13mm, 3.3t dated 04-02-16, G-5261, Pages: 2

Van Beest Test Report No. Proof Load + Actual Break Load test GP Super Screw-pin 16mm, 5t dated 08-02-16, G-

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5261, Pages: 2

Van Beest Test Report No. Proof Load + Actual Break Load test GP Super Screw-pin 19mm, 7t dated 10-02-16, G-5261, Pages: 2

Van Beest Test Report No. Proof Load + Actual Break Load test GP Super Screw-pin 22mm, 9.5t dated 13-02-16, G-5261, Pages: 2

Van Beest Test Report No. Proof Load + Actual Break Load test GP Super Screw-pin 25mm, 12.5t dated 14-02-16, G-5261, Pages: 2

Van Beest Test Report No. Proof Load + Actual Break Load test GP Super Screw-pin 28mm, 15t dated 25 Sep 2020, G-5261, Pages: 9

Van Beest Test Report No. Proof Load + Actual Break Load test GP Super Screw-pin 32mm, 18t dated 11 Sep 2020, G-5261, Pages: 9

Van Beest Test Report No. Proof Load + Actual Break Load test GP Super Screw-pin 35mm, 21t dated 11 Sep 2020, G-5261, Pages: 9

Van Beest Test Report No. Proof Load + Actual Break Load test GP Super Screw-pin 38mm, 30t dated 02 Nov 2020, G-5261, Pages: 9

Van Beest Test Report No. Proof Load + Actual Break Load test GP Super Screw-pin 45mm, 40t dated 26 Oct 2020, G-5261, Pages: 9

Damen Anchor & Chain Factory (AKF) Test Report No. 16306 dated 16 Decedmber 2016, G-5263 SUGHMB13 Z 8 GP GP 8 AP HS, Pages: 01

Damen Anchor & Chain Factory (AKF) Test Report No. 14342 dated 14 Sept., G-5263 SUGHMB16 AH 8 GP GP 8 AZ HS, Pages: 01

Damen Anchor & Chain Factory (AKF) Test Report No. 15240 dated 15 July., G-5263 SUGHMB19 AL 8 GP GP 8 BB HS, Pages: 01

Damen Anchor & Chain Factory (AKF) Test Report No. 15126 dated 15 April 2015., G-5263 SUGHMB22 AJ 8 GP GP 8 AZ HS, Pages: 01

Damen Anchor & Chain Factory (AKF) Test Report No. 17320 dated 22 November 2017, G-5263 SUGHMB25 AS 8 GP GP 8 BE HS, Pages: 01

Damen Anchor & Chain Factory (AKF) Test Report No. 17038 dated 13 January 2017, G-5263 SUGHMB28 AS 8 GP GP 8 BE HS, Pages: 01

Damen Anchor & Chain Factory (AKF) Test Report No. 17364 dated 11 December 2017, G-5263 SUGHMB32 AT 8 GP GP 8 BG HS, Pages: 01

Damen Anchor & Chain Factory (AKF) Test Report No. 15399 dated 20 November 2015, G-5263 SUGHMB35 AL 8 GP GP 8 BC HS, Pages: 01

Damen Anchor & Chain Factory (AKF) Test Report No. 17262 dated 25 August 2017, G-5263 SUGHMB38 AU 8 GP GP 8 BD HS, Pages: 01

Damen Anchor & Chain Factory (AKF) Test Report No. 17039 dated 13 January 2017, G-5263 SUGHMB45 AS 8 GP GP 8 BD HS, Pages: 01

Damen Anchor & Chain Factory (AKF) Test Report No. 17236 dated 10 July 2017, G-5263 SUGHMB57 AP 8 GP GP 8 BD HS, Pages: 01

Damen Anchor & Chain Factory (AKF) Test Report No. 17040 dated 13 January 2017, G-5263 SUGHMB70 AS 8 GP GP 8 BD HS, Pages: 01

Damen Anchor & Chain Factory (AKF) Test Report No. 14466 dated December 2014, G-5263 SUGHMB83 AH 8 GP GP 8 AX HS, Pages: 01

Damen Anchor & Chain Factory (AKF) Test Report No. 21031 dated 23 March 2021, G-5261 SUGHBB57, Pages: 01

Damen Anchor & Chain Factory (AKF) Test Report No. 21112 dated 21 June 2021, G-5261 SUGHBB57, Pages: 01

**Terms of Validity:**

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### **STANDARDS**

#### **ABS Rules:**

2023 Rules for Conditions of Classification, Part 1 - 2023 Marine Vessels Rules 1-1-4/7.7, 1-1-A3, 1-1-A4;  
2021 Guide for Certification of Lifting Appliances: 2-3, 2-5/1  
2017 Guide for Dropped Object Prevention on Offshore Units and Installations: 3-3/9.5, 3-3/9.3.2i

#### **National:**

ASME B30.26-2020, Rigging Hardware: 26-1  
US Federal Specification RR-C-271H, 2021

#### **International:**

NA

#### **Government:**

NA

#### **EUMED:**

NA

#### **OTHERS:**

NA