

DATA BOOK

The logo for Blohm+Voss, consisting of the company name inside a rounded square border.

Oil Tool Division

DATA BOOK INDEX

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DATA BOOK

Blohm+Voss

Oil Tool Division

Page 1

Sales, Design and Manufacturing Data

1. Description : B+V Type Set of Elevator Links, API8C-PSL1, 2.3/4"x540", 350 ton, ATEX & CE marked, MADE IN GERMANY
2. Safe Working Load : 350 tons/set
3. Design Safety factor : In accordance with API 7K/8C, latest Edition
4. Part Number : 234540-Y
5. Serial Number : 82166 A/B (14024/14025)
6. B + V Order No. : 559390
7. Customers Order No. : 11021
8. Customer : Depro AS
Postboks 261
4349 Bryne
9. Assembly Location : BLOHM+VOSS REPAIR GMBH
Hermann-Blohm-Straße 2
20457 HAMBURG
Germany

Date of Issue: 12 June 12

Manufacturers Certificate of Warranty

for

Blohm + Voss Oil Tools

Blohm+Voss Repair GmbH warrants all materials, products and supplies designed and manufactured by it and delivered against the order no. shown on page 1 to be free of defects in material and workmanship, under normal use and service, when installed, used and serviced in the manner provided and intended by Blohm+Voss Repair GmbH for a period of 12 months after installation or delivery, whichever shall occur first.

Blohm+Voss Repair GmbH's obligation under this warranty is expressly limited to repair or replacement at this opinion of any materials, products or supplies returned to

Blohm+Voss Repair GmbH
Oil Tool Division, Bld. B 02
Hermann-Blohm-Straße 2
20457 Hamburg
GERMANY

plant and which are determined by Blohm+Voss Repair GmbH to be defective.

All freight charges for re-shipment shall be paid by customer.

A new warranty period shall not be established for repaired and replaced materials, products or supplies. Such items shall remain under warranty only the remainder of the warranty period of the original materials, products or supplies.

This is the sole warranty period of the Blohm+Voss Repair GmbH and no other warranty is applicable either express or implied in fact or by law, including any warranty as to merchantability or fitness for a particular purpose.

Blohm+Voss Repair GmbH will not assume any responsibility or liability for any repairs, rebuilding, welding or heat treatment, done to it's materials, products or supplies, outside Blohm+Voss Repair GmbH's plant.

Such work shall void any and all warranties.

Blohm+Voss Repair GmbH shall not be liable for any consequential, special, incidental or punitive damages resulting from or caused by any defective materials, products or supplies.

Blohm+Voss

Oil Tool Division

Blohm + Voss Repair GmbH * Postfach 100526 * 20004 Hamburg (Freihafen/Freeport)

www.blohm-voss-oiltools.com

Depro AS

Postboks 261

**4349 Bryne
Norway**

Hamburg

29 May 12

Inhouse contact Behrends, Sabine

Telephone +49-40-3119-1804

Fax +49-40-3119-3410

Your Order 11021 of 14 May 12

B+V Order No. 559390

Certificate of Conformance

This document certifies that all parts and/or assemblies for Blohm + Voss Oil Tool Equipment have been manufactured using new materials and inspected in accordance with the referenced customer purchase order, all applicable Blohm + Voss Repair GmbH specifications and procedures as stated in, but not limited to the documents in the accompanying data package.

All material acceptances, dimensional Inspections, proof and functional tests and NDT Inspections were performed by Blohm + Voss Repair GmbH Quality Control Inspection and meet Blohm + Voss specification and those required by API Specifications.



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Postboks 261
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Norway

Hamburg 29 May 12
 Inhouse contact Behrends, Sabine
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Your Order 11021 of 14 May 12
 B+V Order No. 559390

Inspection Certificate

Page 1

Object	Drawing No.	Serial-Number
B+V Type Set of Elevator Links, API8C-PSL1, 2.3/4"x540", 350 ton, ATEX & CE marked, MADE IN GERMANY	234540-Y	82166 A/B (14024/14025)

Blohm + Voss test method and extent of tests:

1. Test of the material
2. Check of the dimension and tolerances according to design
3. Overload test with 1,5 times rating capacity
(Holding time: 5 minutes)
4. Functional test
5. 100% Crack detection and check for deformations
(crack detection was carried out 24 hours after load test)

We hereby certify that the specified tests are carried out.
 The objects are in accordance with in the purchase order mentioned drawings, rules and terms of delivery.



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Inspection Certificate

Page 2

Object	Drawing No.	Serial-Number
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Blohm + Voss test method and extent of tests:

1. Specification: EM-0, DIN EN 473, DIN EN 10228-1, DIN EN 1369, DIN EN ISO 9934-1 ASTM E 709
2. Requirements: B+V PA-ROM-01-01, B+V PA-ROM-02-01, B+V PA-ROM-03-01 (at least 24 hours after load test)
3. Amount of Inspection:
 - whole surface final examination after heat treatment excavated areas only
 - welded areas whole surface as far as possible constuction welding
4. Type of Equipment: TMS 1500 Helling (Yoke)
5. Testing Material: wet, fluorescent
6. Type of current: alternating/~ pulsatory constuction welding
7. Tangential field strength: 2,0 - 6,5 kA/m (for castings) and 2,0 - 6,0 kA/m (for forgings)

We hereby certify that the specified tests were carried out. The test results corresponds to the requirements and acceptance standards. The objects are in accordance with the purchase order, drawings, rules and terms of delivery.



Certificate of Authority to use the Official API Monogram
ORIGINAL

License Number: **8C-0007**

BLOHM + VOSS REPAIR GMBH
 Hermann - Blohm - Strasse 2
 Hamburg
 Germany

API Spec 8C

8C-0007

The scope of this license includes the following products: Elevator Links; Casing, Tubing, Drill Pipe and Drill Collar Elevators; Sucker Rod Elevators; Spiders, if Capable of Being Used as Elevators; Safety Clamps, if Capable of Being Used as Hoisting Equipment at PSL 1 and 2

QMS Exclusions: No Exclusions Identified as Applicable

Effective Date: **FEBRUARY 19, 2012**
 Expiration Date: **FEBRUARY 19, 2015**

To verify the authenticity of this license, go to www.api.org, click on the "Compliance" link.



John M. ...

Certificate of Authority to use the Official API Monogram
ORIGINAL

License Number: **7K-0039**

BLOHM + VOSS REPAIR GMBH
 Hermann - Blohm - Strasse 2
 Hamburg
 Germany

API Spec 7K

7K-0039

The scope of this license includes the following products: Rotary Bushings; Rotary Slips; Spiders not Capable of Use as Elevators; Manual Tongs; Safety Clamps not used as Hoisting Devices; Power Tongs including Spinning Wrenches

QMS Exclusions: No Exclusions Identified as Applicable

Effective Date: **FEBRUARY 19, 2012**
 Expiration Date: **FEBRUARY 19, 2015**

To verify the authenticity of this license, go to www.api.org, click on the "Compliance" link.



John M. ...

Certificate of Authority to use the Official API Monogram
ORIGINAL

License Number: **8A-0017**

BLOHM + VOSS REPAIR GMBH
 Hermann - Blohm - Strasse 2
 Hamburg
 Germany

API Spec 8A

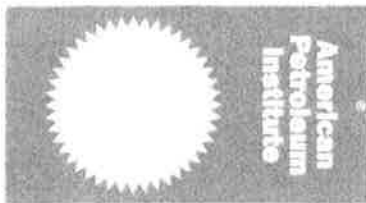
8A-0017

The scope of this license includes the following products: Elevator Links; Casing, Tubing and Drill Pipe Elevators; Sucker Rod Elevators; Spiders, When Capable of Being Used as Elevators

QMS Exclusions: No Exclusions Identified as Applicable

Effective Date: **FEBRUARY 19, 2012**
 Expiration Date: **FEBRUARY 19, 2015**

To verify the authenticity of this license, go to www.api.org, click on the "Compliance" link.



John M. ...

CERTIFICATE

The Germanischer Lloyd Certification GmbH, 20459 Hamburg, hereby certifies that the company

Blohm + Voss Repair GmbH
 Hermann-Blohm-Strasse 2, 20457 Hamburg, Germany
 including
Barthels + Lüders GmbH
 Nordreithstraße 15, 20457 Hamburg, Germany



has established and maintains an Integrated Management System relevant for Repair and conversion of merchant and navy vessels as well as offshore units; Diesel engine service, harbour and travel repairs; Industrial service and boiler repairs; Spare part service, reconditioning and manufacturing of spare parts; Design, production and sales of anchors and anchor systems; Design, production and sales of drilling, production and hoisting well serving equipment for oil and gas industry; Design, construction and repair of storage tanks

Germanischer Lloyd Certification GmbH has audited the company. Evidence was provided that the Integrated Management System fulfils the requirements of the following standard:

ISO 9001:2008
 Certificate No. QS-1090 HH
 ISO 14001:2004
 Certificate No. EM-2856 HH
 OHSAS 18001:2007
 Certificate No. S-2857 HH

The validity of this certificate is subject to the company applying and maintaining its Integrated Management System in accordance with the standards indicated. This will be monitored by Germanischer Lloyd Certification GmbH.

This certificate is valid until February 27, 2013
 Hamburg, March 09, 2010



W. ...
 Wilhelm Lohkol

M. ...
 Thor Dabels



Abnahmeprüfzeugnis EN 10204

Inspection test certificate

3.1Wildauer Schmiedewerke
GmbH & Co. KG**Zeugnis-Nr: 3008006061**

Certificate - No

Seite 1 von 1

Kunde: Blohm + Voss Repair GmbH
*Client***Auftrag-Nr WSW: 3007003276***Order no. WSW***Bestell-Nr Kunde: 537064***Client's order no.***Zeichnung (WSW): 79.095/618-09" g"***Drawing no. - WSW***Bezeichnung: Elevator 23/4"x540"***Object:***Werkstoff: 34CrNiMo6***Material***Zeichnung Kunde: 234000 Index 011***Client's drawing no.***WB-Zustand: schmiedehart***Heat treatment***Lieferbedingung: B+V, Techn.Spez. 34CrNiMo6V,***Specification*

Rev.001, , , ,

Lieferzustand: gesenkgeschmiedet*Condition of delivery*

closed die forged

Menge: 2 Stück/Pieces*Quantity:***Masse /Stück***Weight:***802,0 Kg****Chemische Zusammensetzung in %***Chem. Composition**(Heat no.)**(Heatcode) (Supplier)*

Charge	C:	Si:	Mn:	P:	S:	Cr:	Mo:	Ni:	V:	Al:	Cu:	Sn:	H ₂ ppm	N ₂	Index ^(W) _(Chr.)	Lieferant
778545	0,355	0,310	0,610	0,0090	0,0010	1,580	0,180	1,440		0,030	0,119	0,006	0,800		DHA	BGH Sieg

Mechanische Eigenschaften:*Mechanical properties*

Probe-Nr <i>Test piece no</i>	Lfd. Nr <i>Id. no.</i>	Chargen- Index <i>Heatcode</i>	DIN EN ISO 6892-1, Verfahren B				DIN EN 10045-1		WB-Los <i>Batch no.</i>
			Re / Rp <i>N/mm² Yield point</i>	Rm <i>N/mm² Tensile strength</i>	A 5 <i>% Elongation</i>	Z <i>% Reduction of area</i>	Av (ISO - U; V) <i>J / KV450 -42 °C Impact value</i>		
Sollwerte: (0)			min 800	965-1087	min 15	min 20	min 40		
<i>Requirements:</i>									
258		DHA						0/0	

Eine 100% ige UT- Prüfung wurde beim Stahlhersteller durchgeführt.
The raw material had been ultrasonic tested by steel manufacturer.

Es wird bestätigt, daß die Lieferung den Bedingungen der Bestellung entspricht.
Test results comply in every respect with the specification.

Wildau, 26.01.2011


Leicht
 Werksachverständiger
 Quality Control Manager

3008006061

1618

1618-09

Anlage 1 zum Abnahmeprüfzeugnis **EN 10204**

Inspection test certificate

3.1



Wildauer Schmiedewerke
GmbH & Co. KG

Zeugnis-Nr: 3008006061

certificat - No

Ofen/Ofenl.	Index	Prob.Nr.	Stück	Marking-Nr
-----	DHA	----	2	14024, 14025,

siehe Zeugnis-Nummer: 3008...

schmiedehart,
MT-geprüft, UT - Protokoll vom Vormaterial
Abn. Werksachverständiger, Dok.n.EN 10204-3.1

Verpackung: lose mit angeschnallter Probe.

Wildau, 26.01.2011

Leicht
Werksachverständiger
Quality Control Manager

Magnetpulverprüfzeugnis nach DIN EN 10204 - 3.1



Wildauer Schmiedewerke
GmbH & Co. KG

Magnetic particle test certificate acc. DIN EN 10204 - 3.1

Zeugnis-Nr.: 3008006061

Certificate no.

Kunde : **Blohm&Voss Repair GmbH**
Customer
-Oil Tool Division-
Hermann-Blohm-Straße 2
20457 Hamburg

Auftrags-Nr : **3007003276**
Order no. WSW

Bestell-Nr : **537064**
Customer order no.

Benennung : **Elevator Link 2 3/4" x 540"**
Object

Menge : **2** Stück
Quantity *Pc.*

Zeichnungs-Nr : **234000 Index 011**
Customer drawing no.

TVW - Nr : **79.095/618-09 "e"**
Drawing no. WSW

WB-Zustand : **schmiedehart**
Condition of heat treatment

Werkstoff : **34 CrNiMo 6**
Material

lfd-Nr. : **14024 - 14025**
Serial no.

WB-Los :
Batch no.

Prüfspezifikation: **Techn. Spezif. Rev.01 v. 11/2008**
Testing specification

Prüfumfang : **100 %**
Testing scope

Prüfvorschrift : **EN ISO 9934-1 März 2002**
Testing instruction

Beleuchtungsstärke : **< 20 Lux**
Density of lighting

Prüfverfahren : **wet fluorescent**
Testing procedure

UV-Bestrahlungsstärke: **> 10 W/m²**
Intensity of radiation

Prüfgerät : **FERROTEST 100**
Testing equipment

magn Feldstärke : **25 - 45 A/cm**
Magn. field strength

Prüfmittel : **FLUOFLUX 655 / Water**
Testing medium

Restmagnetfeldstärke : **< 3 A/cm**
Rest field strength

Magnetisierungsart : **Picture 1**
Type of magnetization

Pulveranteil : **> 2 %**
Quota ferro powder

Befund: Die Anforderungen sind erfüllt.

result: *The specified requirements are fulfilled.*

Wildau , 26.01.2011
place , date of testing

FO-046 Rev. 00

Donko
13 - M12

Stempel / Unterschrift
Stamp / Signature