

MATERIAL CERTIFICATION

3.1B CERTIFICATE acc.EN 10204

SCHOELLER-BLECKMANN SALES CO., INC.

11525 Brittmoore Park Drive

USA Houston, Texas 77041



SCHOELLER-BLECKMANN

OILFIELD TECHNOLOGY GMBH CO.KG

HAUPTSTRASSE 2

A-2630 TERNITZ / AUSTRIA

Approved Manufacturer
acc. to ISO 9001 and API-Spec. Q1



License No.

7-0234

SB Sales PO.No. S04020

SBOT PO No.: 116167/1

SB - COLLAR No. LH49

SERIAL No: --

Material: **P 530**

PART: **6 1/2" x 3 1/4" x 31'**

DWG No. : --

MATERIALS SPECIFICATION: IN ACC. WITH DATA SHEET P 530, Rev.9

CHEMICAL ANALYSIS:

Heat No.:	C	SI	MN	P	S	CR	MO	NI	N
L 74769	0,04	0,46	19,8	0,02	0,002	13,6	0,45	1,1	0,28

MECHANICAL PROPERTIES (less than 7-inch diameter)

	Specified values	Actual values (1)
TENSILE STRENGTH	min. 120 KSI	128,6 KSI
YIELD STRENGTH	min. 110 KSI	115,3 KSI
ELONGATION	min. 25 %	34 %
REDUCTION IN AREA	min. 50 %	68 %
IMPACT STRENGTH (Charpy V)	min. 90 ft.lb	153 ft.lb
HARDNESS BRINELL	260-350 BHN	314, 306 BHN

(1) Specimen are taken in longitudinal direction.

GRAIN SIZE	2-3	ASTM
MAGNETIC PERMEABILITY	1,001	max.
CORROSION TEST		
ASTM A 262, Pract. A	STEP	
ASTM A 262, Pract. E	pass	
RESIDUAL MAGNETISM	enclosed	
ULTRASONIC TEST	enclosed	
DIMENSIONAL TEST	in acc. with order	

SURFACE TREATMENTS:

OUTSIDE: --
INSIDE: **hammer peened**

MARKING:

SBS LH49 6 1/2 x 3 1/4 NMDC ID+

Date: July 20, 2004

DS1-9

Karl Eichberger / Quality Department

UT ULTRASONIC TESTREPORT
 ULTRASCHALL
 PRÜFBERICHT

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Test object : N M D C
Prüfobjekt

Bar-No. : LH49
Stangen-Nr.

Material : P 530
Werkstoff

Dimension : OD = 167 mm
Abmessung ID = 83 mm
 L = 9600 mm

Heat-No : L 74769
Schmelze-Nr.

Specification : ASTM E114
Prüfvorschrift ASTM A745

NDE-procedure : AV 062, Rev.0
ZFP-AV

Inspection area : full length of
Prüfbereich test object

Insp.coverage : straight- and angle-
Prüfumfang beam examination

Surface condition : machined
Oberflächenzustand

Equipment No. : Deutsch 1030
Prüfgeräte-Nr. MM.Nr. 2075
Calibration piece : test object +
Justierkörper reference block no.: 7

Probes : MWB45-2, SEB4H0°
Prüfköpfe

Adjustment : BE 80% of FS
Justierung indic. notches 80% of FS

Couplant : Oil-Emulsion
Kopplungsmittel

Signal/noise distance: > 6 dB
S/N – Abstand

Referencereflector : BW test object +
Referenzreflektor notches on reference block

Reference block:
Artificial defect-dimension : long. and transv. Notches (OD + ID)
Testfehlerabmessung : Längs- u. Quernuten (AD + ID)

length/Länge : 25,00 mm
 width/Breite : 2,00 mm
 depth/Tiefe : 3 % wallthickness

Test result : Within specification
Prüfergebnis : Entspricht der Vorschrift

Operator / Level:
Prüfer / Stufe H. Fenz / I

Supervisor / Level:
Prüfer / Stufe: E. Kucera / III

Date: 2004-07-12
Datum

Date: 2004-07-14
Datum

PROBE TESTING REPORT

(Field Intensity Gradient Measurement)

Stangen-Nr. : LH49
Bar - No. :

Werkstoff : P530
Material :

Schmelze : L 74769
Heat No. :

Abmessung : 6 1/2"x 3 1/4"x 31'
Dimension :

Prüfanlage : Foerster Magnetoscope Type 1.067
Test equipment : Probe 1.009 - 4502

Datum : 12.07.04
Date :

Prüfer : Fenz
Operator :

