

# TEST REPORT



## Stihl MS 441

Test number: 4353

**OWNER OF THE TEST CERTIFICATE:**

Manufacturer and applicant:

Andreas Stihl AG & Co. KG

Badstraße 115

D- 71336 Waiblingen

[www.stihl.de](http://www.stihl.de)



MS 441



MS 441 C-M



MS 441 - W



MS 441 C-M W



MS 441 C-Q / MS 441 C-MQ



## Test results and evaluation

### Chain saws

STIHL MS 441 (standard version)

STIHL MS 441 C-Q (with Quickstop)

STIHL MS 441-W (with handle heating)

STIHL MS 441 C-M (with electr. engine management)

STIHL MS 441 C-MQ (with electr. engine management and Quickstop)

STIHL MS 441 C-M W (with electr. engine management and handle heating)

Tested with 40 cm Stihl Rollomatic saw bar and 3/8" RS saw chain

Andreas Stihl AG & Co. KG; Badstrasse 115; D- 71336 Waiblingen

Test item	Test result				Evaluation
Function	Chain saw in the power class up to 4 kW, for professional use				
Engine power					N.E.
	Engine speed	Torque		Spec. fuel consumption	
P <sub>max</sub> = 4.1 kW	9500 min <sup>-1</sup>	4.1 Nm		58 kW/l	
Md <sub>max</sub> at 3.3 kW	7200 min <sup>-1</sup>	4.3 Nm		47 kW/l	
Fuel consumption					
	max. power	max. torque			
absolute / specific	2.3l/h	415 g/kWh	2.2 l/h	487 g/kWh	+
Exhaust emissions					N.E.
Comply with type approval Level II of the guideline 2002/88/EG					
Approval number: e1*97/68SH3-IIA*2004/26*0340*00					
Chain lubrication					
Oil consumption	at 5000 min <sup>-1</sup>		at 9000 min <sup>-1</sup>		
min / max	3 ml/min	8 ml/min	5 ml/min	13 ml/min	o
Noise					
	idling speed	full load speed	Full throttle no load		
at ear of the operator	83 dB(A)	103 dB(A)	105 dB(A)		-
Equivalent sound pressure level, according to DIN EN ISO 22868: 102 dB(A)					
Acoustic power, according to DIN EN ISO 22868: 114 dB(A)					
(average between: idling/ full load/ full throttle)					
Vibration					
	idling speed	full load speed	Full throttle no load		
front handle	3.5 m/s <sup>2</sup>	3.2 m/s <sup>2</sup>	2.4 m/s <sup>2</sup>		o

rear handle	3.7 m/s²	3.3 m/s²	2.7 m/s²	
Total equivalent vibration according to DIN EN ISO 22867				
front handle 3.0 m/s²; rear handle 3.2 m/s²				
<b>Chain brake</b>				
Handguard activation	Actuating force	aver. braking time	max. braking time	<b>N.E.</b>
	26 N	0.07 s	0.09 s	
Inertia activation	horizontal acceleration		vertical acceleration	
	310 m/s²		630 m/s²	
<b>Kickback</b>				
Chain stop angle	33 °			<b>N.E.</b>
<b>Weight</b>				
Weight per unit power	With cutting equipment		Without cutting equipment	
	1.9 kg/kW		1.6 kg/kW	<b>+</b>
<b>Operability / handling</b>				
Control elements	Easy to reach and use			<b>o</b>
Primer	Decompression valve present			<b>+</b>
	Easier starting of model MS 261 C-BE using mechanical starting aid (Ergostart) and manual fuel pump			<b>++</b>
	Combined switch for engine ON-OFF and CHOKE			<b>+</b>
	M- Tronic were always started in start position regardless of the status of the machine			<b>++</b>
Engine control	Electronic control adjusts mix automatically to suit the present working conditions (air pressure, air filter, fuel)			<b>++</b>
	Carburettor adjustments not required			
Chain assembly	Easy to reach and operate			<b>o</b>
Chain tensioning	Simple, side chain tensioner			<b>o</b>
Fuel tank	Fuel tank cover can be opened without tools, easy to access			<b>o</b>
<b>Maintenance</b>				
Engine, air filter and spark plug cover, casing	Simple, clips removable using combination wrench			<b>o</b>
Air filter	cleaning	No tools		<b>+</b>
	soiling	low		<b>+</b>
<b>Reliability</b>		No damage during the test		<b>o</b>
<b>Operating manual</b>		clear, well illustrated		<b>+</b>

**Operator safety**

EG-type examination test

DPLF K-EG-2009/4205

DPLF K-GS-2009/4206

**N.E.**

Rating: ++ / + / o / - / --./.(o = Standard / NE= no evaluation, complies with tolerance value)

**Description and technical data****Engine**

- Air-cooled single-cylinder two-stroke engine
- Engine displacement 70.2 cm<sup>3</sup>; bore 50 mm; stroke 36 mm
- Fuel: minimum octane number 90 ROZ (mix ratio 1:50) or two stroke special fuel with “KWF-TEST“, manufacturers recommendation: Stihl MotoMix
- Spark plug NGK BPMR 7A
- Idling speed 2800 min<sup>-1</sup>; max. speed 13500 min<sup>-1</sup>

**Cutting attachment**

- Clutch drum with internal chain sprocket
- guide bar lengths between 40 and 75 cm
- Half or full chisel tooth chain
- pitch 3/8“ guage 1.6 mm

**Main dimensions and weights MS 441** (measured values)

Length	incl. cutting attachment 40 cm	835 mm
	engine unit without spiked bumper	440 mm
Width	engine unit	185 mm
	incl. handle	260 mm
Height	engine unit	220 mm
	with front hand guard	310 mm
Stump height	chain sprocket cover	20 mm
	handle	35 mm
Tank capacity	fuel	700 ml
	chain oil	345 ml
Net weight	incl. cutting attachment 38 cm	7.9 kg
	without cutting attachment	6.7 kg

# Test

## Test facilities

Kuratorium für Waldarbeit und Forsttechnik, Gross-Umstadt  
DLG-Testzentrum Technik & Betriebsmittel, Gross-Umstadt

## Field test

Forestry offices Lampertheim, Ehringshausen and Dieburg  
FBZ Königsbronn and Arnsberg

## Authors

P. Müssig, KWF, Gross-Umstadt  
J. Albert, DLG, Gross-Umstadt

## FPA/DLG-Test Committee

" Equipment and tools"




Chairman: Sebastian Paar, FBZ Laubau

## FPA/DLG- approval until June 2017

In acknowledgment of the results of the test carried out by the KWF,  
the approved product is also entitled to carry the following test marks:



## Herausgeber

	DLG-Testzentrum Technik & Betriebsmittel Max-Eyth-Weg 1 D-64823 Gross-Umstadt	Telephone: +49 069/24788-652 Fax: +49 069/24788/110 E-mail: <a href="mailto:J.Albert@dlg.org">J.Albert@dlg.org</a> Internet: <a href="http://www.dlg-test.de">www.dlg-test.de</a>
	ENTAM European Network for Testing of Agricultural Machines c/o ENAMA Via Venafro, 5 I-00159 Rome	Telephone: +39 06 40860030 Fax: +39 06 4076264 E-mail: <a href="mailto:inf@entam.com">inf@entam.com</a> Internet: <a href="http://www.entam.com">www.entam.com</a>
	Kuratorium für Waldarbeit und Forsttechnik e.V. Forest technology division (FPA) Spremlinger Strasse 1 D-64823 Gross-Umstadt	Telephone: +49 06078/785-0 Fax: +49 06078/785 50 E-mail: <a href="mailto:Muessig@kwf-online.de">Muessig@kwf-online.de</a> Internet: <a href="http://www.kwf-online.de">www.kwf-online.de</a>
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