TEST REPORT



Stihl MS 880

Test number: 3758 <u>OWNER OF THE TEST CERTIFICATE</u>:

Manufacturer and applicant:
Andreas Stihl AG & Co. KG
Badstrasse 115
71336 Waiblingen - Germany

www.stihl.de



Test Results and Evaluations



Tested with 63 cm Rollomatic E bar and 3/8" full chisel saw chain

Andreas Stihl AG & Co. KG; Badstrasse 115; 71366 Waiblingen - Germany

Test item	Test results	6			Evaluation
Class	Chain-saw classified above 4 kW				
	for professional use				
Engine power					
	Engine	Torque		Spec. fuel	
P _{max} = 6,4 kW	speed 8.500 rpm	7.2 Nm		consumption 52 kW/l	N.E.
Md _{max} at 5,5 kW	6.750 rpm	7.2 Nm		45 kW/l	
Fuel consumption	0.700 Ipini	7.014111		10 KVV/1	
- uoi comeampiion	ot mavimus	m nower	ot movi	imum taraua	
absolute / specific		n power 504 g/kWh	3.7 l/h	imum torque 500 g/kWh	+
Exhaust emission	1.0 1/11		0.7 1/11		•
				0	
Complies with type approval regulations stage I of 97/68/EG in version (EU) 2016/1628, approval number: e1*97/68SH3-IA*2004/26*0244*01					
Chain lubrication					
Oil consumption	at 5000 rpm		at 9000 rpm		
min / max	6 / 16 ml/rpm		13 / 27 ml/rpm		o
Sound pressure level					
(63 cm saw bar)	idling speed full load speed		speed		
at ear of the operator	87 dB(A)		106 dB(A)		-
Equivalent sound pressure, total value according to DIN EN ISO 22868: 103 dB(A)					
(50:50 Mix: Idling/full load)					
Accoustic power according to DIN EN ISO 22868: 116 dB(A)					
(50:50 Mix: Idling/full load)					
Vibration					
(63 cm saw bar)	idling spee	d	full loa	d speed	
front handle	6.4 m/s ²		8.4 m/s	2	
rear handle	9.1 m/s ²		6.4 m/s	2	•
Total equivalent vibration according to DIN EN ISO 22867					
Front handle 7.5 m/s ² ; rear handle 7.8 m/s ²					

6812 - Stihl MS 880

Chain brake			
Handguard activation	Actuating Average force braking		
	33 N 0.11 s	0.14 s	N.E.
Inertia activation (40 cm	horizontal accelera- tion	vertical acceleration	
bar)	96 m/s ²	664 m/s ²	
Weight			
Power/weight ratio	With cutting equipmer	Without cutting equip- ment	
	1.9 kg/kW	1.6 kg/kW	0
Operability / handling			
Controls	easily accessible and easy to use		0
	Decompression valve	+	
Starting procedure	Mechanical starting ai	0	
	starter handle) availab engine ON, OFF, CHO		
		pre-adjusted for exhaust	
Motor control	gas optimization, therefore setting range of carbu- retor / idler screws limited		0
Chain assembly	Easily accessible and easy to use		0
Chain tension	easy, lateral chain tension		0
	laterally in the sprocke	et cover, with tools	0
Refueling	Tank caps can be operated without tools		0
	easily accessible		
Maintenance	0. 1 1.		
Engine, air filter and spark plug cover	Simple, clips removable using combination wrench		0
Air filter cleaning	No tools required		+
soiling	normal		0
Reliability	No damage reported during tests		0
Operating manual	clear, well-illustrated		+
Work safety			
GS- Test	DPLF K-GS-2009/375	59	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
- Displacement 121.6 cm³; bore 60 mm; stroke 43 mm
- Fuel: minimum octane number 90 RON (ratio 1:50), or 2T-special fuel with "KWF-TEST"; manufacturer recommended fuel: MotoMix
- Spark plug NGK BPMR 7A
- Idling speed 2.800 rpm

Cutting equipment

- Clutch drum with external chain sprocket
- Guide bar with and without tooth sprocket nose available
- full or half chisel tooth chain
- pitch 3/8" an 0.404" gauge 1.6 available

Main dimensions and weights (measured values)

Length	incl. cutting equipment 37 cm	1.130 mm
	engine unit without spiked bumper	550 mm
Width	engine unit	225 mm
	incl. handle	275 mm
Height	engine unit	245 mm
	with front hand guard	340 mm
Stump height	chain sprocket cover	20 mm
	handle	15 mm
Tank capacity	fuel	1.300 ml
	chain oil	700 ml
Net weight	incl. cutting equipment 50 cm	12.3 kg
	without cutting equipment	9.9 kg

In acknowledgement of the results of the test carried out by the KWF the approved product is also entitled to carry the following test marks: "DLG anerkannt".

Test committee: tools and equipment Chairman: Dr. Sebastian Paar, Laubau		practical application carried out by professional user	
Inspection closed	August 2019	Kuratorium für Waldarbeit und Forsttechnik e.V.	
Approval until:	August 2024	Spremberger Straße 1	
First approval	August 2003	64823 Groß-Umstadt - Germany	
Responsible test engineer		Telephone 06078-785-0	
Patrick Müßig		Telefax: 06078/785-50	
muessig@kwf-online.de		Homepage: www.kwf-online.de	