TEST REPORT



STIHL MS 194 C

OWNER OF TEST CERTICFICATE:

Test no.: 10382

Andreas Stihl AG & Co. KG Badstraße 115 71336 Waiblingen - Germany www.stihl.de



Test results and evaluations



Andreas Stihl AG & Co. KG, Badstrasse 115,71336 Waiblingen - Germany

Tested with 35 cm guide bar und 3/8" semi chisel chaw chain RM3

Application field

Chain saw in the power range up to 2 kW for professional use in young stand maintenance and landscaping.

Operation, maintenance and product safety					
Operability / Handlin	Operability / Handling / Ergonomics				
Operating controls	Easy to operate even with gloves; clear arrangement, easy to reach	+			
Starting procedure	Combination lever "0" "I" and "Start", separate choke lever; ErgoStart and manual fuel pump make starting easier				
Engine control	Engine control Carburetor preset at the factory; minimal change of idle speed possible with tools				
Chain assembly	Difficult, external clutch bell housing	-			
Chain tension	Adjustable with tool; device in side of sprocket cover	О			
Refueling	Hinged tank cap no tool required	О			
Maintenance					
Air filter and spark plug cover	Tool-free disassembly, easily accessible	0			
Air filter Cleaning Contamination	Tool-free, easily accessible Low	+			
Reliability	No damage during the tests	+			
Safety and user info	rmation				
Operating instructions	g instruc- Illustrated, detailed, clear, adapted to the conditions in practice, also available digitally free as pdf, pdf searchable.				
Product safety	EC type examination certificate by a notified body is available.				

Technical data's				
Main dimensions an	Main dimensions and weights			
Length	Including cutting attachment	690 mm		
Longar	Engine unit without claw stop	420 mm		
Width	Engine unit	170 mm		
	With handle tube	240 mm		
l la imbt	Engine unit	210 mm		
Height	With hand guard	245 mm		
Floor balakt	Sprocket cover	23 mm		
Floor height	Handle tube	40 mm		
Tank capacity	Fuel	270 ml		
	Chain oil	220 ml		
dry weight	Including cutting attachment	4,05 kg		
	Without cutting attachment	3,58 kg		
Cutting performance				
Cutting performance	27 cm²/Sec. (Cutting spruce roundwood approx. Ø 23 cm)			
	45 cm²/Sec. (cutting of KVH 14x24 cm)			

Cutting attachment

- Clutch drum with internal chain wheel
- Guide bar with 8-tooth deflection sprocket
- Half-chisel tooth chain
- Pitch 3/8" with groove width 1.1 mm
- Further cutting sets available according to instructions to match the saw type

Engine data's

- Air-cooled single-cylinder two-stroke engine
- Displacement: 31.8 cm³; cylinder bore: 37 mm; piston stroke: 28 mm
- Spark plug: NGK CMR6H
- Idling speed: 3.000 min⁻¹; Rated speed: 10.500 min⁻¹

Fuel: Minimum octane number 90 ROZ (mixing ratio 1:50) or two-stroke special fuel with "KWF-Test". Manufacturer's recommendation: Stihl MotoMix

Power / torque at	Rotational speed			Litre capacity	
$P_{max} = 1,4 \text{ kW}, M = 1,3 \text{ Nm}$	10.500 min ⁻¹			46 kW/l	o.B.
$M_{max} = 1,6 \text{ Nm}, P = 1,2 \text{ kW}$	2 kW 6.500 min ⁻¹			38 kW/I	
Power-to-weight ratio	With cuttin	g attachment		out cutting achment	+
	2,4 kW/kg		2	,2 kW/kg	
Fuel consumption	at max. power Torque			+	
absolute / specific	0,8 l/h	430 g/kWh	0,7 l/h	470 g/kWh	
Chain lubricant consumption	at 5.000 min ⁻¹			О	

Delivery rate not adjustable		4 ml/m	nin		
Exhaust emissions					
Comply with stage V of engine clas	s NRSh-v-1a of Dire	ctive (E	U) 2016/1	628.	
	Limits according t Regulation 2016/	Δ Δ Δ Δ Δ Δ Δ Δ Δ Δ Δ Δ Δ Δ Δ Δ Δ Δ Δ		ual value	
СО	805 g/kWh 803		3 g/kWh	o.B.	
HC + NO _X			40 g/kWh		
Noise emissions					
Max. Noise level (With 30 cm cutting attachment)	Idle	Full throttle 102 dB(A)		Full load	-
On operator's ear	81 dB(A)			101,5 dB(A)	
Equivalent sound pressure level acceptation and power level acceptations.	•			` '	
Vibrations					
(With 30 cm cutting attachment)	Idle	Full th	rottle	Full load	
Front handle	3,5 m/s ²	3,9 m/s²		3,7 m/s ²	0
Rear handle	2,9 m/s²	3,7 m/s ²		4,2 m/s ²	
Equivalent total vibration value acc Front handle: 3,7 m/s ² Rear handle: 3,6 m/s ²	cording to DIN EN IS	O 2286	7		
Rating ra	ange: ++ / + / o / - / -	- ; o = st	tandard		
n.e. = no 6	evaluation ; - limit val	lue com	plied with		

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".

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