TEST REPORT



STIHL MS 194 T

Number: 10383

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Results and evaluations

Tested with 30 cm bar and 3/8" semi chisel saw chain

Field of application

Chain saw for tree service. Use exclusively for tree service work by specially trained personnel. Not suitable for conventional chain saw work (e.g., felling, limbing, cutting to length).

Operation, maintenance and product safety				
Usability / Handling / Ergonomics				
Operational controls	Good operability even with gloves, clear arrangement, good accessibility	+		
Starting procedure	Combination lever "0" "I" and "Start", separate choke lever ErgoStart and manual fuel pump facilitate the starting process	0		
Engine control	Carburetor preset at the factory; minimal change of idle speed possible with tools	-		
Chain assembly	Complicated by internal sprocket	-		
Chain tensioning	Adjustable with tool, device on the side of the sprocket cover.	0		
Refuelling	Hinged lid tank caps no tools required	0		
Maintenance				
Air filter and spark plug cover	Tool-free disassembly, easily accessible	+		
Air filter				
Cleaning	Tool-free, easily accessible	+		
Contamination	Low	+		
Reliability	No damage in the course of the tests.	+		
Safety and user information				
Operating instructions	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.	0		

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Technical data				
Main dimensions a	nd weights			
l an ath	Including cutting attachment	520 mm		
Length	Motor unit without claw stop	255 mm		
Width	handle unit	165 mm		
vviatri	With handle tube	220 mm		
Height	engine unit	205 mm		
	With hand guard	235 mm		
0	Sprocket cover	23 mm		
Stump height	Handle tube	-		
Tank capacity	Fuel	270 ml		
	Chain oil	220 ml		
Descript	Including cutting set	3,8 kg		
Dry weight	Without cutting attachment	3,3 kg		
Cutting performance	ee			
Maximum cutting	27 cm²/Sec. (Spruce log cutting approx. Ø 23 cm)	27 cm²/Sec. (Spruce log cutting approx. Ø 23 cm)		
performance	ance 45 cm²/Sec. (cutting solid construction timber 14x24 cm)			
Cutting attachment				

Cutting attachment

- Clutch drum with internal chain wheel
- Guide bar with 8-tooth sprocket
- Semi-chisel tooth chain
- Pitch 3/8" with groove width 1.1 mm
- Further cutting attachments 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; 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	Speed		Litre output		
P _{max} = 1,4 kW, M = 1,3 Nm	10.500 min ⁻¹		46 kW/l		o.B.
$M_{max} = 1,6 \text{ Nm}, P = 1,2 \text{ kW}$	6.500 min		38 kW/l		
Power-to-weight ratio	With cutting attachment		Without cutting attachment		++
	2,4 kW/kg		2,2 kW/kg		
Fuel consumption	at ma	at max. power		at max. torque	
absolute / specific	0,8 l/h	430 g/kWh	0,7 l/h	470 g/kWh	
Chain lubrication consumption	at 5.000 min ⁻¹				
Flow rate not adjustable	4 ml/min			0	

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Exhaust emissions

Comply with stage V of engine class NRSh-v-1a of Directive (EU) 2016/1628.

Approval number available on the type plate

	Limits according to EU regulation 2016/1628	Real value	
со	805 g/kWh	803 g/kWh	o.B.
HC + NO _X	50 g/kWh	40 g/kWh	

Noise emissions (maximum values according to manufacturer)

Max. Noise level (Cutting attachment 30 cm)	ldling	Full throttle no load	Maximum load	-
on the ear of the operator	81 dB(A)	102 dB(A)	101,5 dB(A)	

Equivalent sound pressure level according to DIN EN ISO 22868: 100 dB(A) Equivalent sound power level according to DIN EN ISO 22868: 113 dB(A)

Vibration (Maximum values according to manufacturer)

Max. Vibration (Cutting attachment 30 cm)	Idling	Full throttle no load	Maximum load	
Front handle	2,7 m/s²	3,2 m/s²	2,8 m/s ²	0
Rear handle	3,0 m/s²	4,0 m/s²	3,1 m/s ²	

Equivalent total vibration value according to DIN EN ISO 22867

Front handle: 2,9 m/s² Rear handle: 3,4 m/s²

Rating range: ++/+/o/-/--; o = standard

o. B. = without evaluation; - limit value complied with

This report is based on practical tests and measurements carried out by professional users according to the specifications of the Expert Committee on Equipment and Tools of KWF e.V.

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