

TEST REPORT



Husqvarna 545

Test no.: 6383

OWNER OF THE TEST CERTIFICATE:

Manufacturer and applicant:

Husqvarna AB
SE-561 82 Huskvarna

www.husqvarna.com





Test Results and Evaluations

Chain saws

HUSQVARNA 545 (standard model)

Tested with 38 cm guide bar and 0,325" saw chain

Husqvarna AB; SE- 561 82 Huskvarna

Test item	Test result				Evaluation
Function	Chain saw in the power class up to 3 kW, for professional use				
Engine power					
$P_{\max} = 2,4 \text{ kW}$	Engine speed 9500 min ⁻¹	Torque 2,4 Nm	Spec. fuel consumption 48 kW/l		N.E.
Md_{\max} bei 1,9 kW	6750 min ⁻¹	2,7 Nm	38 kW/l		
Fuel consumption					
	max. power		max. torque		
absolute / specific	1,5 l/h	420 g/kWh	1,3 l/h	480 g/kWh	+
Exhaust emissions	Comply with type approval Level II of the guideline 2002/88/EG Approval number: e2*97/68SG3*2002/88*0148*00				o
Chain lubrication					
Oil consumption	at 5000 min ⁻¹		at 9000 min ⁻¹		
min / max	3 ml/min	7 ml/min	5 ml/min	11 ml/min	o
Noise					
	idling speed	full load speed	Full throttle no load		
at ear of the operator	84 dB(A)	105 dB(A)	107 dB(A)		-
Equivalent sound pressure level, according to DIN EN ISO 22868: 105 dB(A) (average between: idling/ full load/ full throttle)					
Acoustic power, according to DIN EN ISO 22868: 114 dB(A) (50:50 Mix: full throttle / full load)					
Vibration					
	idling speed	full load speed	Full throttle no load		
front handle	3,3 m/s ²	2,7 m/s ²	2,3 m/s ²		o
rear handle	4,8 m/s ²	3,5 m/s ²	2,5 m/s ²		
Total equivalent vibration according to DIN EN ISO 22867 front handle 2.8 m/s ² ; rear handle 3.7 m/s ²					

Chain brake					
Handguard activation		Actuating force	aver. braking time	max. braking time	N.E.
		33 N	0,06 s	0,09 s	
Inertia activation		horizontal acceleration		vertical acceleration	
		266 m/s²		514 m/s²	
Kickback					
Chain stop angle		25 °			N.E.
Weight					
Weight per unit power		With cutting equipment	Without cutting equipment		o
		2,5 kg/kW	2,1 kg/kW		
Operability / handling					
Control elements		Easy to reach and use			o
Primer		Easier starting using decompression valve and manual fuel pump			++
		A combined switch for engine Off/ON and CHOKE			+
Engine control		Electronic control automatically adjusts gas mix to suit different conditions (air pressure, air filter, fuel), no adjustment of carburettor necessary.			++
Chain assembly		difficult : external transmission unit			-
		drive sprocket cover fixed with two permanently fixed nuts (replaceable)			+
Chain tensioning		Simple, on the side			o
Fuel tank		Fuel tank cover can be opened without tools			o
Maintenance					
Air filter and spark plug cover, casing		Simple, clips removable using combination wrench			o
Air filter	cleaning	Tool required for removing clip			o
	soiling	low			+

Reliability	At the beginning of the test, the machines showed some starting problems and did not run smoothly. No additional problems during the test following adjustment in a specialist workshop or when these were replaced with new test machines (series December 2012).	-
Operating manual	clear, well illustrated	+
Operator safety		
EG-type examination test	SMP 0404/11/2324	N.E.

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

Threshold values and evaluation criteria are described in the “Information about the Utility Value Test” available from the DLG and the KWF.

Description and technical data

Engine

- Air-cooled single-cylinder two-stroke engine
- Engine displacement 50,1 cm³; bore 43 mm; stroke 34,5 mm
- Fuel: minimum octane number 90 ROZ (mix ratio 1:50) or two stroke special fuel with "KWF-TEST", manufacturers recommendation: Aspen
- Spark plug NGK CMR6H
- Idling speed 2800 min⁻¹; max. speed 13500 min⁻¹

Cutting attachment

- Clutch drum with external chain sprocket
- Guide bar with sprocket
- full chisel tooth chain
- pitch 0,325" guage 1.5 mm
- various guide bar lengths and chain types available for this saw model

Main dimensions and weights (measured values)

Length	incl. cutting attachment 35 cm	780 mm
	engine unit without spiked bumper	430 mm
Width	engine unit	170 mm
	incl. handle	220 mm
Height	engine unit	210 mm
	with front hand guard	270 mm
Stump height	chain sprocket cover	23 mm
	handle	30 mm
Tank capacity	fuel	480 ml
	chain oil	270 ml
Net weight	incl. cutting attachment 38 cm	5,9 kg
	without cutting attachment	5,0 kg

Test

Test facilities

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

Field test

NFBZ Münchhof
Forstliches Bildungszentrum Itzelberg, Königsbronn
Landesbetrieb Wald und Holz NRW

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FPA/DLG-Test Committee

"Equipment and tools"




Chairman: Sebastian Paar, FBZ Laubau

FPA/DLG- approval until March 2018

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:



Published by

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