



TEST REPORT HUSQVARNA 455 Rancher

TEST CERTIFICATE HOLDER:

Manufacturer and applicant:
Husqvarna AB
SE- 561 82 Huskvarna
www.husqvarna.de



Test Results and Evaluations

Chainsaw Husqvarna 455 Rancher with 38 cm bar length

Husqvarna AB; SE- 561 82 Huskvarna/Sweden

Test item		Test results				Evaluatio
Function		Chain saw in the power class up to 3 kW, for semi-professional use				
Engine power						
Power	Power		d Torque		c. fuel	NE
max. 2.5 kW		0000 : -1	0.0.11		sumption	
2.1 kW		9000 min ⁻¹	2.6 Nm	45. k		
		6200 min ⁻¹	max. 3.2	Nm 38 k	VV/I	
Fuel consumption		may nawar		may targua		
absolute / specific		max. power 1.5 l/h	447 g/kWh	max. torque 1.4 l/h	496 g/kWh	+
Exhaust emission		110 1/11	· · · · g/·····	,,,,	100 g/ttrii	•
				e standard 2002		++
		system is purged with air after combustion, to reduce fraction of unburned fuel.				
Chain lubrication						
Oil consumption		at 5000 min ⁻¹		at 9000 min ⁻¹	1	Ο.
min. / max		4 ml/min	11 ml/min	5 ml/min	15 ml/min	0
Noise						
		idling	full load	d	racing	
Sound pressure level		83 dB(A)	105	107	Ü	
Equivalent sound press duration of exposure)	ure level 10	4 dB(A) (operation	n modes idling/ f	full load/ racing wit	h equal	
Sound power level:113	dB(A) accord	ding to Directive 20	00/14/EC			
Vibration						
		idling	full load	d	racing	
front handle	[m/s ²]	4.4	2.7	2.8		+
rear handle	[m/s ²]	3.3	4.5	5.3		
Equivalent vibration total	al value:	front/rear 3.4	/ 4.5 m/s ²			
Chain brake						
Hand guard activation	n	activation for	ce aver. brak	king time max.	braking time	NE
		22 N	0.08 s	0.1	0 s	
Inertia activation		horizontal acc	celeration	vertical acce	leration	NE
		370 m/s ²		680 m/s ²		

Kickback			
Cutting attachment 38 cm, 0.325"	Kickback angle w. chain brake	Chain stop angle	NE
Full chisel tooth	18°	37 °	

Power to weight ratio			
	With cutting attachment	Without cutting attachment	_
	2.7 kg/kW	2.4 kg/kW	
Operability / handling	_		
Control elements	Easy to reach and use		+
Primer Decompression valve and primer		primer	+
Chain assembly	ssembly awkward, exterior clutch drum		-
Chain tensioning	Lateral, requires tool		0
Maintenance			
Air filter and spark plug cover and housing	One-piece, requires tools (3 screws)	0
Air filter cleaning	Clip connection, no tools re	equired	+
soiling	low		+
Reliability			
	No defects during test		+
Operating manual			
	clear, well illustrated		+
	use of special fuel recomm	nended	++
Operator safety			
EG-type examination test	(SMP) Test certificate No.	PU 77639/05/01	

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

Description and Technical Data

Motor

- Air-cooled single-cylinder two-stroke engine; with engine technology providing a smooth flow of air/fuel charge for emission reduction
- Engine displacement 56 cm³; bore 47 mm; stroke 32 mm;
- Fuel: minimum octane number 90 ROZ; mixed lubrication,
- 2-T- special fuel with "KWF-TEST" or regular lead-free petrol;
- Spark plug NGK BPMR 7A or Champion RCJ-7Y.
- Idling speed:2700 min⁻¹; max. speed: 12800 min⁻¹

Kommentar [m1]: Von der Husqvaerna website

- Zama membrane carburettor.

Cutting attachment

- Clutch drum with internal chain sprocket;
- Guide bar with sprocket nose, full chisel tooth chain, pitch 0.325".
- Available guide bars lengths from 33 to 50 cm;

Main dimensions and weights

Length,	incl. cutting attachment 38 cm	778	mm
	engine unit with spiked bumper	425	mm
Width,	engine unit	189	mm
	incl. handle	222	mm
Height,	engine unit	226	mm
	with front hand guard	295	mm
Stump height,	chain sprocket cover	35	mm
	handle	40	mm
Tank capacity,	fuel	0.45	I
	chain oil	0.30	I
Weight,	incl. cutting attachment 38 cm	6.8	kg
	without cutting attachment	5.9	kg

Test

Test carried out by

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

Field test

Waldwirtschaftsverband, CH-Solothurn Forstliches Bildungszentrum Hachenburg Forstliche Ausbildungsstätte Morgenröthe

Authors

Harald Krämer, DLG, Groß-Umstadt Dietmar Ruppert, KWF, Groß-Umstadt

FPA/DLG-Test Committee

"Geräte und Werkzeuge"("Equipment and tools") with 16 members

Chairman: Josef Berthold

FPA/DLG- approval: November 2005

FPA- Index: 1.01.4177 DLG- Test Report: 5526

According to the test regulations, the applicant is entitled to display the test mark on machines of this type and to use the certification for advertising purposes.

DLG-Testzentrum Technik & Betriebsmittel Groß-Umstadt

Max-Eyth-Weg 1 Telephone: 06078/96 35-0

D-64823 Groß-Umstadt Fax: 06078/9635-90

E-mail: H.Kraemer@dlg.org Internet: www://dlg-test.de

Kuratorium für Waldarbeit und Forsttechnik e.V. (KWF)

Forsttechnischer Prüfungsausschuss (FPA)

 Spremberger Straße 1
 Telephone: 06078/785-0

 D-64823 Groß-Umstadt
 Fax: 06078/785 50

E-mail: Dietmar.Ruppert@kwf-online.de

Internet: www.kwf-online.de



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