

TEST REPORT



Husqvarna 550 XP

Test number: 6384

OWNER OF THE TEST CERTIFICATE:

Manufacturer and applicant:

Husqvarna AB

SE-561 82 Huskvarna

www.husqvarna.com





Test results and evaluations

Chain saws

HUSQVARNA 550 XP (Standard version)

Tested with saw bar: 38 cm cutting length 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} = 2.7 kW	Engine speed	Torque	Spec. fuel consumption		N.E.
Md _{max} bei 2.2 kW	10500 min ⁻¹	2.5 Nm	54 kW/l		
	7750 min ⁻¹	2.7 Nm	44 kW/l		
Fuel consumption					
	max. power	max. torque			
absolute / specific	1.6 l/h	420 g/kWh	1.5 l/h	477 g/kWh	+
Exhaust emissions					
Comply with type approval Level II of the guideline 2002/88/EG					o
Approval number:: e2*97/68SG3*2002/88*0147*00					
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)	107 dB(A)	108 dB(A)		-
Equivalent sound pressure level, according to DIN EN ISO 22868: 106 dB(A)					
(average between: idling/ full load/ full throttle)					
Equivalent sound pressure level, according to DIN EN ISO 22868: 117 dB(A)					
(50:50 Mix: full throttle / full load)					
Vibration					
	idling speed	full load speed	Full throttle no load		
front handle	3.3 m/s²	2.7 m/s²	2.3 m/s²		o
rear handle	4.8 m/s²	3.5 m/s²	2.5 m/s²		
Total equivalent vibration according to DIN EN ISO 22867					
front handle 2.8 m/s²; rear handle 3.7 m/s²					

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				
Kickback angle	26 °			N.E.
Weight				
Weight per unit power	With cutting equipment		Without cutting equipment	+
	2.2 kg/kW		1.9 kg/kW	
Operability / handling				
Control elements	Easy to reach and use			o
Machine start	Decompression valve and manual fuel pump for easy starting			++
Engine control	Combined switch for engine ON-OFF and CHOKE			
	Electronic control adjusts mix automatically to suit the present working conditions (air pressure, air filter, fuel)			+
Chain assembly	Carburettor adjustments not required			++
	difficult, external crank case			
Chain tensioning	Chain wheel cover secured by two captive nuts (replaceable)			-
				+
Fuel tank	simple, side-mounted chain tensioner			o
	Fuel tank cover can be opened without tools, easy to access			o
Maintenance				
Engine, 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	For one sample engine damage occurred. After replacing the saw this ran without further incident.			o
Operating manual	clear, well-illustrated			+
Operator safety				
EG-type examination test	SMP FX211963			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
- Displacement 50.1 cm³; bore 43 mm; stroke 34.5 mm
- Fuel: minimum octane number 90 ROZ (Mixture 1:50) or two-stroke special fuel with “KWF-Test”; manufacturers recommendation: Aspen
- Spark plug NGK CMR6H
- Idling speed 2800 min⁻¹; nominal speed 10500 min⁻¹

Cutting equipment

- Clutch drum with external chain sprocket
- Guide bar with chain sprocket
- full chisel tooth chain
- Pitch 0,325“ gauge 1,5 mm
- Choice of cutting bar lengths and chain types are available for this saw

Main dimensions and weights (measured values)

Length,	incl. cutting equipment 38 cm	780 mm
	engine unit without spiked bumper	430 mm
Width,	engine unit	170 mm
	incl. handle	210 mm
Height,	engine unit	210 mm
	with front hand guard	265 mm
Stump height,	chain sprocket cover	23 mm
	handle	30 mm
Tank volume,	fuel	480 ml
	chain oil	270 ml
Weight,	incl. cutting equipment 38 cm	5.9 kg
	without cutting equipment	5.0 kg

Test

Test institute

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

Field test

Forstliche Ausbildungsstätte Ort, A-Gmunden
Forstliches Bildungszentrum Itzelberg, Königsbronn
Landesbetrieb Wald und Holz NRW

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FPA/DLG- Test commission

“Geräte und Werkzeuge”(“Equipment and tools”)
Chairman: Sebastian Paar, FBZ Laubau

FPA/DLG-approval until April 2017

In acknowledgment of the performance in the KWF test, the approved product is also licensed to carry the following test signs: “DLG SIGNUM TEST approved”

Published by:

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