



TEST REPORT



Chainsaw Husqvarna 390 XP

Test no.: 5242

OWNER OF THE TEST CERTIFICATE:

Manufacturer and applicant:

Husqvarna AB
SE- 561 82 Huskvarna

www.husqvarna.de



Test results and evaluations



Chainsaw Husqvarna 390 XP with 46 cm cutting length

Husqvarna AB; SE- 561 82 Huskvarna/Sweden

Test item	Test results					Evaluation
Function	Chainsaw in the power class over 4 kW. for professional use					
Engine power						
Power	Engine speed		Torque	Spec. fuel consumption	NE	
max 4.7 kW						
3.2 kW	10500 rpm		4.3 Nm	53 kW/l		
	5800 rpm		max 5.3 Nm	42 kW/l		
Fuel consumption						
	max. power		max. torque		O	
absolute / specific	3.3 l/h	516 g/kWh	2.2 l/h	501 g/kWh		
Exhaust emission						
	complies with level 1 of the standard 2002/88 EG					O
Chain lubrication						
Oil consumption	at 5000 rpm		at 9000 rpm		o	
min / max	7 ml/min	14 ml/min	13 ml/min	25 ml/min		
Sound pressure level						
	idling speed		full load speed		--	
at ear of the operator	88 dB(A)		109 dB(A)			
Equivalent sound pressure level, total value 106 / dB(A) (Average: idling – full load – full throttle)						
Accoustic power 117 dB(A) according to standard 2000/14/EG						
Vibration						
	idling speed		full load speed		-	
front handle	7.0 m/s²		8.8 m/s²			
rear handle	4.4 m/s²		4.5 m/s²			
Total equivalent vibration front/rear 5.8 / 7.0 m/s²						
Chain brake						
Hand guard activation	Actuating force	aver. braking time	max. braking time		NE	
	38 N	0.08 s	0.11 s			
Inertia activation	horizontal acceleration		vertical acceleration		NE	
	240 m/s²		443 m/s²			

Husqvarna 390 XP

Kickback			
Kickback assessments are not required for chainsaws >80cm ³			
Weight			
Weight per unit power	With cutting equipment	Without cutting equipment	
	1.9 kg/kW	1.5kg/kW	+
Operability / handling			
Control elements	Easy to reach and use		+
Primer	Relief valve		+
Chain assembly	Simple, chain sprocket easy to access		O
Chain tensioning	lateral		O
Handle heating - optional (Type 390XPG)	heating coils in both handles		+
Chain tensioning	lateral		O
Model Type 390 XPG	- heating coils in both handles		+
	- Electric carburettor heating, thermostat-controlled temperature regulation prevents ice-formation in carburettor		+
Maintenance			
Air filter and spark plug covers and casing	4 clamp fasteners, tool required		+
	3 screw, tool required		O
Air filter cleaning	1 screw, no tool required		+
soiling	Very low		++
Reliability			
	No problems during the test		+
Operating manual			
	clear, well illustrated		+
	Special fuels recommended		++
Operator safety			
EG-type examination test	(SMP) Test certificate No. 404/06/1119		

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

Description and technical data

Engine

- Air-cooled single-cylinder two-stroke engine;
- engine displacement 88 cm³; bore 55 mm; stroke 37 mm;
- Fuel: minimum octane number 90 RON; mixed lubrication, 2T-special fuel with "KWF-TEST" or lead-free regular petrol;
- Spark plug NGK BPMR 7A or Champion RCJ-7Y,
- Idling speed: 2700 min⁻¹; max. speed: 12800 min⁻¹
- Membrane carburettor Zama.

Cutting equipment

- - Clutch drum with internal chain sprocket;
- Guide bar with sprocket nose, full chisel tooth, pitch 3/8".
- Guide bars for 46 to 70 cm cutting lengths;

Main dimensions and weights		
Length	incl. cutting equipment 50 cm	930 mm
	engine unit without spiked bumper	453 mm
Width	engine unit	205 mm
	incl. handle	250 mm
Height	engine unit	243 mm
	with front hand guard	327 mm
Stump height	chain sprocket cover	24 mm
	handle	30 mm
Tank volume	Fuel	900 ml
	Chain oil	480 ml
Weight	incl. cutting equipment 45 cm	8.7 kg
	without cutting equipment	7.2 kg

Test

Test carried out by

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

Field test

Forstliches Bildungszentrum Stützpunkt Laubau
Forstliches Bildungszentrum Königsbronn
Niedersächsisches Forstliches Bildungszentrum Seesen

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FPA/DLG-Test committee

“Geräte und Werkzeuge“ (“Equipment and tools”) with 14 members
Chairman: Alois Zollner

FPA / DLG-Approval:

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KWF-Test no. 5242
DLG-test report: 5916

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

DLG-Testzentrum Technik & Betriebsmittel Gross-Umstadt

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