



Test Report

DOLMAR PS 4600

OWNER OF THE TEST CERTIFICATE:

Manufacturer and applicant:

Dolmar GmbH

Jenfelder Strasse 38

D-22045 Hamburg

www.dolmar.de



Test Results and Evaluations

DOLMAR PS 4600/ PS 4600 S chain saw with 38 cm cutting length

Type SS" with a higher max. engine speed

Dolmar GmbH, Jenfelder Strasse 38; D-22045 Hamburg

Test item	Test results				Evaluation
Function	Chain saw in the power class up to 3 kW; for professional use				
Motorleistung					
Power	Engine speed	Torque	Spec. fuel consumption		NE
max 2.6 kW	10000 min ⁻¹	2.5 Nm	57 kW/l		
1.9 kW	6500 min ⁻¹	max. 2.8 Nm	42 kW/l		
Fuel consumption	max. power		max. torque		
absolute / specific	1.5 l/h	433 g/kWh	1.3 l/h	503 g/kWh	+
Exhaust emission complies with level 1 of the standard 2002/88 EG					
Chain lubrication	at 5000 min ⁻¹		at 9000 min ⁻¹		
Oil consumption					
min / max	3 ml/min	5 ml/min	6 ml/min	9 ml/min	O
Sound pressure level	idling speed	full load speed	Full throttle no load		
at ear of the operator	82 dB(A)	103 dB(A)	104 dB(A)		-
Equivalent sound pressure level, total value: 102 dB(A) ; (average between: idling/ full load/ full throttle)					
Acoustic power 112 dB(A) according to the standard 2000/14/EG					
Vibrations	idling speed	full load speed	Full throttle no load		
front handle	5.1 m/s²	3.5m/s²	3.6 m/s²		+
rear handle	4.1 m/s²	3.9 m/s²	2.6 m/s²		
Total equivalent vibration front/rear: 4,1 / 3,6 m/s²					
Chain brake					
Handguard activation	Actuating force	aver. braking time	max. braking time		NE
	26 N	0.07 s	0.11 s		

Inertia activation	horizontal acceleration	vertical acceleration	NE
	325 m/s ²	848 m/s ²	
<i>Kickback</i>			
Cutting equipment 38 cm, 0,325"	Kickback angle with brake	Chain stop angle	NE
Full chisel tooth	28.8°	17.7°	

Mass			
Weight per unit power		With cutting equipment	Without cutting equipment
		2.3 kg/kW	2.0 kg/kW
Operability / handling			
Control elements		Easy to reach and use	+
Primer		No decompression valve	o
Chain assembly		easy, drive sprocket easily accessible	o
Chain tensioning		simple, on the side in the chain sprocket cover	o
Maintenance			
Air filter and spark plug cover, casing		Quick release for easy access, but requires combination wrench	+
Air filter	cleaning	No tools required	+
	soiling	low	+
Tank caps		The filler opening is insufficiently protected against dirt;	-
Special features		Compensator for optimal fuel/air mixture when air filter is clogged-up	+
Reliability		Fuel tank cap easily come loose. This defect has been rectified since May 2005.	o
Operating manual		clear, well illustrated	
Operator safety			
EG-type examination test		TÜV Product Service No. M6 0407 24243 056	
GS-Test		TÜV Product Service No. AL 0407 24243 055	

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

Tolerance values and evaluation criteria are described in the "Informationen zur Gebrauchswertprüfung" ("Information about the type examination test"). This publication is available from the DLG and the KWF.

Description and Technical Data (measured values)

Engine

- Air-cooled single-cylinder two-stroke engine;
- engine displacement 46 cm³; bore 43mm; stroke 31mm;
- Fuel: minimum octane number 91ROZ; mixed lubrication, 2T-special fuel with "KWF-TEST"
- Spark plug Bosch NGK BPMR 7A.

- Idling speed 2500 min⁻¹; max. speed 13500 min⁻¹; Type "S": 14500 min⁻¹
(electronic speed regulator)
- Shipped with two different air filters (fleece and nylon filter)

Cutting equipment

- Clutch drum with external chain sprocket;
- Guide bar with sprocket nose
- full chisel tooth chain, 3/8" or 0.325" pitch, groove width 1.5 mm.

Additional equipment (not tested)

- Guide bars for 33 to 53 cm cutting lengths;
- Heated handle

Main dimensions and weights

Length,	incl. cutting equipment 38 cm	775 mm
	engine unit with spiked bumper	405 mm
Width,	engine unit	190 mm
	incl. handle	228 mm
Height,	engine unit	208 mm
	with front hand guard	282 mm
Stump height,	chain sprocket cover	15 mm
	handle	20 mm
Tank volume,	fuel	0.45 l
	chain oil	0.28 l
Weight,	incl. cutting equipment 38 cm	6.1 kg
	without cutting equipment	5.2 kg

Test

Test carried out by

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

Field test

Waldarbeitsschule Kunsterspring

Landesanstalt für Ökologie, Bodenordnung und Forsten, Arnsberg

Forstl. Bildungszentrum Rheinland Pfalz, Hachenburg

Nieders. Forstl. Bildungszentrum Münchehof, Seesen

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FPA/DLG- testing commission

“Geräte und Werkzeuge“ (“Equipment and tools”) with 16 members

Chairman: Josef Berthold, Waldarbeitsschule Laubau

FPA/DLG- approval:

May 2005

FPA-Index: 1.01.4039

DLG-Test Report: 5496

The declarant 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

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