

TEST REPORT



STIHL MS 362

Test number: 5790

OWNER OF THE TEST CERTIFICATE:

Manufacturer and applicant:

Andreas Stihl AG & Co. KG

Badstrasse 115

D- 71336 Waiblingen

www.stihl.de



MS 362



MS 362 C-M



MS 362 C-MVW



Test Results and Evaluations

Chain saws

STIHL MS 362 (standard model)

STIHL MS 362 C M (with electronic engine management)

STIHL MS 362 C M VW (with electronic engine management, handle and carburettor heating)

Tested with guide bar Rollomatic E 45 cm and 36 RS saw chain

Andreas Stihl AG & Co. KG; Badstrasse 115; D- 71336 Waiblingen

| Test item | Test results | | | | Evaluation |
|----------------------------------|---|--------------|---------------------------|------------------------|-------------|
| Class | Chain saw in the power class up to 4 kW for professional use | | | | |
| Engine power | | Engine speed | Torque | Spec. fuel consumption | |
| $P_{max} = 3.5$ kW (MS 362) | | 10750 rpm | 3.1 Nm | 60 kW/l | N.E. |
| at Md_{max} at 2.9 kW | | 8000 rpm | max. 3.5 Nm | 49 kW/l | |
| $P_{max} = 3.5$ kW (MS 362 C-M) | | 10500 rpm | 3.2 Nm | 60 kW/l | N.E. |
| At Md_{max} at 2.8 kW | | 7750 rpm | max. 3.5 Nm | 47 kW/l | |
| Fuel consumption | | max. power | max. torque | | |
| absolute / specific. (MS 362) | 2.3 l/h | 471 g/kWh | 1.9 l/h | 481 g/kWh | o |
| absolute / specific (MS 362 C-M) | 2.2 l/h | 460 g/kWh | 2.0 l/h | 513 g/kWh | o |
| Exhaust emission | Complies with type approval regulations stage IV of 97/68/EG in version (EU) 2016/1628, approval numbers: | | | | |
| | Standard version: e1*2016/1628*2016/1628SHB3/P*0099*00 | | | | |
| | M- Tronic version: e1*2016/1628*2016/1628SHB3/P*0105*00 | | | | o |
| Chain lubrication | | | | | |
| Oil consumption | at 5000 min ⁻¹ | | at 9000 min ⁻¹ | | |
| min / max | 4 ml/min | 9 ml/min | 7 ml/min | 16 ml/min | o |
| Noise | | idling speed | full load speed | Full throttle no load | |
| at ear of the operator | 86 dB(A) | | 106 dB(A) | 108 dB(A) | - |
| | Equivalent sound pressure level according to DIN EN ISO 22868: 106 dB(A) | | | | |
| | Acoustic power according to DIN EN ISO 22868: 118 dB(A) | | | | |
| | (average of full load/full throttle) | | | | |

5790 – Stihl MS 362

| Vibration | | | | |
|--|---|---------------------------|-----------------------|-------------|
| MS 362 / MS 362 C-M | idling speed | full load speed | Full throttle no load | |
| front handle [m/s ²] | 3.2 / 3.0 | 3.9 / 4.0 | 2.6 / 2.8 | ○ |
| rear handle [m/s ²] | 2.8 / 2.9 | 3.1 / 3.7 | 2.4 / 2.3 | |
| Total equivalent vibration according to DIN EN ISO 22867 | | | | |
| Front handle 3.3 / 3.3 m/s ² ; rear handle 2.8 / 3.0 m/s ² | | | | |
| Chain brake | | | | |
| Handguard activation | Actuating force | aver. braking time | max. braking time | |
| | 38 N | 0.1 s | 0.12 s | N.E. |
| Inertia activation | horizontal acceleration | vertical acceleration | | |
| | 460 m/s ² | 992 m/s ² | | |
| Kickback | | | | |
| Full chisel tooth 3/8 " (36RS) | kickback angle with chain brake | | Chain stop angle | |
| Saw bar length 40 cm | 42° | | 25° | N.E. |
| Weight | | | | |
| Weight per unit power | With cutting equipment | Without cutting equipment | | |
| | 45 cm | | | |
| | 2.0 kg/kW | 1.6 kg/kW | | + |
| Operability / handling | | | | |
| Control elements | Easy to reach and use | | | ○ |
| | Decompression valve, mechanical starter (shock absorber in starter handle) | | | + |
| Machine start | Using combined Stop - On-CHOKE switch | | | + |
| | Models MS 362 C-M combined Stop-On-Start switch, with stop button function, no choke position | | | ++ |
| Engine control | Factory-adjusted carburettor, minimal alteration of idling speed possible with tools | | | |
| | Models MS 362 C-M, without regulator screws, therefore automatic optimal adaptability to current conditions (surroundings, dirt, fuel). | | | ++ |
| Chain assembly | Easy, good access to chain sprocket | | | ○ |
| Chain tensioning | simple, on the side under chain sprocket cover | | | ○ |
| Refilling | Fuel tank covers can be opened without tools, easy to access | | | ○ |

| | | |
|---|--|----------------------------|
| Maintenance | | |
| Engine, air filter and spark plug cover, casing | Simple, clips removable using combination wrench | o |
| Air filter cleaning | No tools required | + |
| soiling | low | + |
| Reliability | | No damages during the test |
| Operating manual | | clear, well-illustrated |
| Operator safety | | |
| EG-type examination test | DPLF K-EG-2009/5159 | N.E. |
| GS- Test | DPLF K-GS-2009/5160 | |

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

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

Description and technical data

Engine

- Air-cooled single-cylinder two-stroke engine
- Displacement 59 cm³; bore 47 mm; stroke 34 mm
- Fuel: minimum octane number 90 RON, manufacturers recommendation: Stihl MotoMix 92 ROZ
- Spark plug Bosch WSR-6F or NGK BPMR 7A
- Idling speed 2800 rpm; max. speed 14000 rpm (electronic engine speed limiter)

Cutting equipment

- Clutch drum with external chain sprocket
- Guide bar with sprocket nose
- Half or full chisel tooth chain, pitch 3/8", gauge 1.6 mm
- Various guide bar lengths and chain types available for this saw model

Technical data's (measured values)

| | | |
|--------------|-----------------------------------|--------|
| Length | incl. cutting equipment 45 cm | 890 mm |
| | engine unit without spiked bumper | 445 mm |
| Width | engine unit | 185 mm |
| | incl. handle | 250 mm |
| Height | engine unit | 220 mm |
| | with front hand guard | 295 mm |
| Stump height | chain sprocket cover | 21 mm |
| | handle | 30 mm |
| Tank volume | fuel | 600 ml |
| | chain oil | 300 ml |
| Weight | incl. cutting equipment 45 cm | 7.0 kg |
| | without cutting equipment | 5.7 kg |

In acknowledgement of the results of the test carried out by the KWF the approved product is also entitled to carry the following test marks: "DLG anerkannt".

Test committee: tools and equipment
Chairman: Dr. Sebastian Paar, Laubau

practical application carried out by professional user, product is further made unchanged

Inspection closed: November 2016

Kuratorium für Waldarbeit und Forsttechnik e.V.

Approval until: November 2021

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First approval: August 2012

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Responsible test engineer

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