PRÜFBERICHT



STIHL MS 271

OWNER OF TEST CERTIFICATE:

Test no.: 6191

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Chain saw tested with a 40 cm cutting attachment with semi-chisel saw chain

Application field

Chain saw for professional use in the power range up to 3 kW

| Handling, maintenance, product safety | | | | |
|---------------------------------------|--|------|--|--|
| Operability / Handling / Ergonomics | | | | |
| Controls | Easily accessible and easy to operate | 0 | | |
| Starting procedure | One combined switch for engine ON-OFF and CHOKE (warm/cold start) | | | |
| Engine control | Carburetor preset; adjustment range of carburetor / idle screws limited | | | |
| Chain assembly | Easy; sprocket cover easily accessible | 0 | | |
| Chain tension | Simple; on the side in the sprocket cover | 0 | | |
| Refueling | Fuel filler caps can be loosened without tools; easily accessible | 0 | | |
| Maintenance | | | | |
| Air filter and spark plug cover | Easy dismantling due to quick-release fasteners / can be dismantled with combination spanner | | | |
| Air filter | | | | |
| Cleaning | No tools required | + | | |
| Contamination | Low | + | | |
| Reliability | No damage during testing | 0 | | |
| Safety and user information | | | | |
| Operating instructions | Clearly arranged, well-illustrated + | | | |
| Product safety | EC type examination certificate available | n.e. | | |

| Technical data's | | | | | |
|------------------|--|------------------|--|--|--|
| Main dimensions | Main dimensions and weights | | | | |
| Length | Including cutting attachment Engine unit without spiked bumper | 785 mm 435 mm | | | |
| Width | Engine unit With handle tube | 184 mm 235 mm | | | |
| Height | Engine unit With hand guard | 205 mm 280 mm | | | |
| Floor height | Sprocket cover Handle tube | 20 mm 30 mm | | | |
| Tank capacity | Fuel Chain lubrication | 500 ml 240 ml | | | |
| Dry weight | Including cutting attachment Without cutting set | 6,8 kg 5,6 kg | | | |

Cutting attachment

- Clutch drum with external chain wheel
- Guide bar with 11-tooth deflection sprocket
- · Semi-chisel tooth chain
- Pitch 3/8" with groove width 1.6 mm
- Other guide bar lengths and chain types available to match the saw type

Engine data's

- Air-cooled single-cylinder two-stroke engine
- Displacement: 50.2 cm³; cylinder bore: 44,7 mm; piston stroke: 32 mm
- Spark plug: NGK BPMR 7A
- Idling speed: 2.800 min-1; maximum speed: 13.000 min-1

Fuel: minimum 90 RON (mixing ratio 1:50) or two-stroke special fuel with "KWF-Test". Manufacturer's recommendation: Stihl MotoMix

| Power / torque at | Speed | | Litre output | | | |
|--|-------------------------|---------------------|----------------------------|------------|-------|--|
| $P_{max} = 2.6 \text{ kW}, M = 2.5 \text{ Nm}$ | 9.500 min ⁻¹ | | 52 kW/l | | o. B. | |
| $M_{max} = 2.8 \text{ Nm}, P = 2.2 \text{ kW}$ | 6.500 min ⁻¹ | | 44 kW/l | | | |
| | With | cutting | Withou | ut cutting | | |
| Power-to-weight ratio | attachment | | attachment | | 0 | |
| | 2,2 kg/kW 2,1 kg/kW | | kg/kW | | | |
| Fuel consumption at max | | . power | at max | k. torque | | |
| absolute / specific | 1,6 l/h | 458 g/kWh | 1,4 l/h | 533 g/kWh | | |
| Chain lubricant consumption | at 5.000 |) min ⁻¹ | at 9.000 min ⁻¹ | | | |
| min / max | 3 ml/min | 5 ml/min | 4 ml/min | 9 ml/min | 0 | |

| Exhaust emission | | | | | | |
|---|---|-----------|--------------------|----------------------|---|--|
| Comply with stage V of engine class | NRSh-v-1a of Direct | tive (E | U) 2016/16 | 28. | | |
| | Limit values according to EU Regulation 2016/1628 | | | | 0 | |
| СО | 603 g/kWh | | 376 g/kWh | | | |
| HC + NO _X | 72 g/kWh | | 63 g/kWh | | | |
| Noise emission | | | | | | |
| | Idle | F | ull load | Full throttle | | |
| on the ear of the operator | 86 dB(A) | 102 dB(A) | | 105 dB(A) | - | |
| Equivalent sound pressure level acception | • | | | (A) | | |
| Vibration emission | | | | | | |
| | Idle | Fu | III load | Full throttle | | |
| Front handle | 3,0 m/s² | 4,: | 3 m/s ² | 2,3 m/s ² | 0 | |
| Rear handle | 1,9 m/s² | 5, | 5 m/s² | 3,1 m/s ² | | |
| Equivalent total vibration value acc Front handle: 3,3 m/s ² Rear handle: 3,8 m/s ² | ording to DIN EN ISO | 2286 | 7 | | | |

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".

Evaluation range: ++/+/o/-/--; o = Standard; n.e. = no evaluation; – limit value observed

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|--|---------------|---|--|--|--|
| Test completion | November 2022 | Kuratorium für Waldarbeit und Forsttechnik e.V. | | | |
| Approval until | November 2027 | Spremberger Straße 1 | | | |
| First approval | Mai 2012 | 64823 Groß-Umstadt | | | |
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