

TEST REPORT



Husqvarna 545 Mark II Husqvarna 545G Mark II

Test no.: 8722

OWNER OF THE TEST CERTIFICATE:

Manufacturer and applicant:

Husqvarna AB
SE-561 82 Huskvarna

www.husqvarna.com





Test Results and Evaluations

Chain saws

HUSQVARNA 545 Mark II (standard version)

HUSQVARNA 545G Mark II (version with handle heating)

Tested with 38 cm guide bar 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 | | | | | |
| | Engine speed | Torque | Spec. fuel consumption | | N.E. |
| P _{max} = 2.8 kW | 9.900 min ⁻¹ | 2.7 Nm | 55 kW/l | | |
| Md _{max} at 2.2 kW | 7.200 min ⁻¹ | 3.0 Nm | 44 kW/l | | |
| Fuel consumption | | | | | |
| | Maximum power | Maximum torque | | | |
| absolute / specific | 1.2 l/h | 432 g/kWh | 1.2 l/h | 413 g/kWh | + |
| Exhaust emissions | | | | | |
| Comply with stage V directive 97/68/EG in version (EU) 2016/1628 approval number e5*2016/1628*2016/1628SHB3/P*0011*00 | | | | | o |
| 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 ISO 22868: 106 dB(A) | | | | | |
| Acoustic power, according to DIN EN ISO 22868: 114 dB(A) | | | | | |
| Vibration | | | | | |
| | idling speed | full load speed | Full throttle no load | | |
| front handle [m/s²] | 4,7 | 3,5 | 2,2 | | o |
| rear handle [m/s²] | 4,3 | 4,0 | 4,1 | | |
| Total equivalent vibration according to ISO 22867 front handle 3.6 m/s²; rear handle 4.1 m/s² | | | | | |

| | | | | |
|---|--|---------------------------------|---------------------------|------|
| Chain brake | | | | |
| Handguard activation | actuating force | average braking time | maximum braking time | N.E. |
| | 33 N | 0,06 s | 0,08 s | |
| Inertia activation | horizontal acceleration | | vertical acceleration | |
| | 266 m/s² | | 514 m/s² | |
| Kickback | | | | |
| Chain stop angle | 22 ° (measurements were carried out with cutting attachment guide bar 16"/ saw chain H25 | | | N.E. |
| Weight | | | | |
| Weight per unit power | With cutting equipment | | Without cutting equipment | o |
| | 2.3 kg/kW | | 21.9 kg/kW | |
| Operability / handling | | | | |
| Control elements | Easy to reach and use | | | o |
| Primer | Easier starting using decompression valve and manual fuel pump | | | + |
| | A combined switch for engine Off/ON and CHOKE | | | + |
| Engine control | Electronic control automatically adjusts gas mix to suit different conditions (air pressure, air filter, fuel), no adjustment of carburettor necessary | | | ++ |
| Chain assembly | difficult : external transmission unit | | | - |
| | drive sprocket cover fixed with two permanently fixed nuts (replaceable) | | | + |
| Chain tensioning | Simple, side-mounted chain tensioner | | | o |
| Fuel tank | Fuel tank cover can be opened without tools, easily accessible | | | o |
| Maintenance | | | | |
| 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 | No damage during the test | | | o |
| Operating manual | clear, well-illustrated | | | + |

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 50,1 cm³; bore 43 mm; stroke 34,5 mm
- Fuel: minimum octane number 90 ROZ (mix ratio 1:50) or two stroke special fuel with "KWF-TEST", manufacturers recommendation: Aspen
- Spark plug NGK CMR6H
- Idling speed 2800 min⁻¹

Cutting attachment

- Clutch drum with external chain sprocket
- Guide bar with sprocket
- full chisel tooth chain
- pitch 0,325" gauge 1.5 mm
- various guide bar lengths and chain types available for this saw model

Main dimensions and weights (measured values)

| | | |
|---------------|---|-----------------|
| Length | incl. cutting attachment 35 cm | 800 mm |
| | engine unit without spiked bumper | 440 mm |
| Width | engine unit | 175 mm |
| | incl. handle | 220 mm |
| Height | engine unit | 220 mm |
| | with front hand guard | 280 mm |
| Stump height | chain sprocket cover | 24 mm |
| | handle | 28 mm |
| Tank capacity | fuel | 560 ml |
| | chain oil | 320 ml |
| Net weight | incl. cutting attachment 38 cm | 6,4 kg / 6,6 kg |
| | 545/545G Mark II without cutting attachment | 5,3 kg / 5,5 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

Inspection closed: April 2019

Approval until: April 2024

First approval: April 2019

Responsible test engineer

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practical application carried out by professional user

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