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|--------------|---|---------------------|--|
| Type | <i>Cutting unit S</i> | Year of manufacture |  |
| Factory No.: | | | |
| Unit holder: | | | Card SL-S-1 |
| Regulations: | - Operating instructions (unit) | - GUV-G 9102 | Test Interval: - in accordance with GUV-G 9102 - after repair |
| | - Operating instructions (test equipment) | | |

Fundamental safety instructions:

| | |
|---|--|
|  | WARNING / CAUTION / ATTENTION! |
| | Personal protection equipment must ALWAYS be worn when testing units! |
|  | In addition, ALWAYS use adequate shielding when carrying out the tests! |
| | LUKAS rescue equipment can only be tested using LUKAS testing equipment! |

*) Suitable shielding can be obtained from your authorised LUKAS dealer or from LUKAS direct!

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|--|--|
|  | NOTE: Before using this test card check the currentness of the card and only use the latest version. The latest unit test cards can be obtained on the LUKAS web page or directly from LUKAS. |
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Required testing equipment:

- Test unit with a max. operating pressure of 70 MPa (1 MPa = 10 bar)
- appropriate test bolt
- Test pressure gauge
- Crack testing kit
- Stopwatch
- Adapter set for test pressure gauge, if included
- Appropriate safety shielding

Evaluation:

| | | | | | |
|---|--|--|--|--|--|
| Findings: | | | | | |
| Repaired on: | | | | | |
| Released for use on: | | | | | |
| Disabled / no longer released for use on: | | | | | |
| Signature of tester: | | | | | |

SL_S_1_GPK_GB_1010

Visual inspection:

| Tests | Target value | Result | Result | Result | Result |
|---|--------------|--------|--------|--------|--------|
| Opening width of the blade arms at the tips | 1) | | | | |
| General tightness, no leaks | | | | | |
| Mobility of the star grip and automatic resetting to the neutral position | | | | | |
| Handle present and screws tightened | | | | | |
| Blade arms free of cracks and without any chipped spots or deformations on the cutting surfaces | | | | | |
| Pins and circlips on the blade arms are present and in a proper condition | | | | | |
| Cutting surfaces go on top of each other without making contact | | | | | |
| Check the tightening torque on the central bolt | 1) | | | | |
| Type plate present and legible | | | | | |
| Actuating labels, instruction labels, markings and warning notes present and legible | | | | | |
| The presence and perfect condition of all covers e.g. protective hose | | | | | |
| Couplings present, undamaged, easy to couple and no leaks | | | | | |
| Dust protection caps present and undamaged | | | | | |
| All hose lines undamaged | | | | | |
| Kink protection undamaged | | | | | |
| The hose lines are less than 10 years old (see stamped date) | | | | | |

1) The target values can be taken from the data table of the individual unit and must be entered in the test table.
(The data table can be found on the next page!)

Notes concerning visual inspection:

Operational check:

| Tests | Target value | Result | Result | Result | Result |
|--|--------------|--------|--------|--------|--------|
| Average ambient temperature during operational testing | | | | | |
| Pressure with running pump without actuating the unit (p_1 in bar) | | | | | |
| Pressure when closing the cutting unit without test bolt (p_2 in bar) | | | | | |
| $p_{DIFF} = p_2 - p_1$ (bar) | 2) | | | | |
| Opening time, unloaded (in seconds) | 3) | | | | |
| Closing time, unloaded (in seconds) | 3) | | | | |
| Close cutter blades on test plate and read off pressure on test pressure gauge (bar) | 2) | | | | |
| No onward movement when releasing the star grip during opening or closing | 4) | | | | |



NOTE for testing with test bolt:

Ensure that you never do this twice at the same point on the testing bolt.

- 2) The target value range can be taken from the data table of the individual unit and must be entered in the test table. (The data table can be found on the next page!)
- 3) Depending on the feed rate of the test hydraulic unit used, you must take the individual set target value from the diagrams (to be found on the following pages) and enter it in the position "Set value" in the test table. The flow rate can be taken from the technical data of the hydraulic power pack (possibly on the type plate of the hydraulic power pack). [Time deviations of $\pm 15\%$ are acceptable]
- 4) The star grip must return automatically to the neutral position and the blades must remain in the position taken up at the time.

Notes concerning the operational test:

Data table:

| Type | | S 310 | S 311 | S 330 |
|---|------|---------|-------|-------|
| Opening width of the blade arms at the tips | [mm] | > 125 | > 150 | > 228 |
| Tightening torque at the central bolt | [Nm] | 120 +10 | | |
| p _{DIFF} | min. | [bar] | 10 | 10 |
| | max. | [bar] | 40 | 40 |
| Close the cutting blades on the test bolt | min. | [bar] | 600 | 600 |
| | max. | [bar] | 715 | 715 |

1 MPa = 10 bar

Diagrams:

