

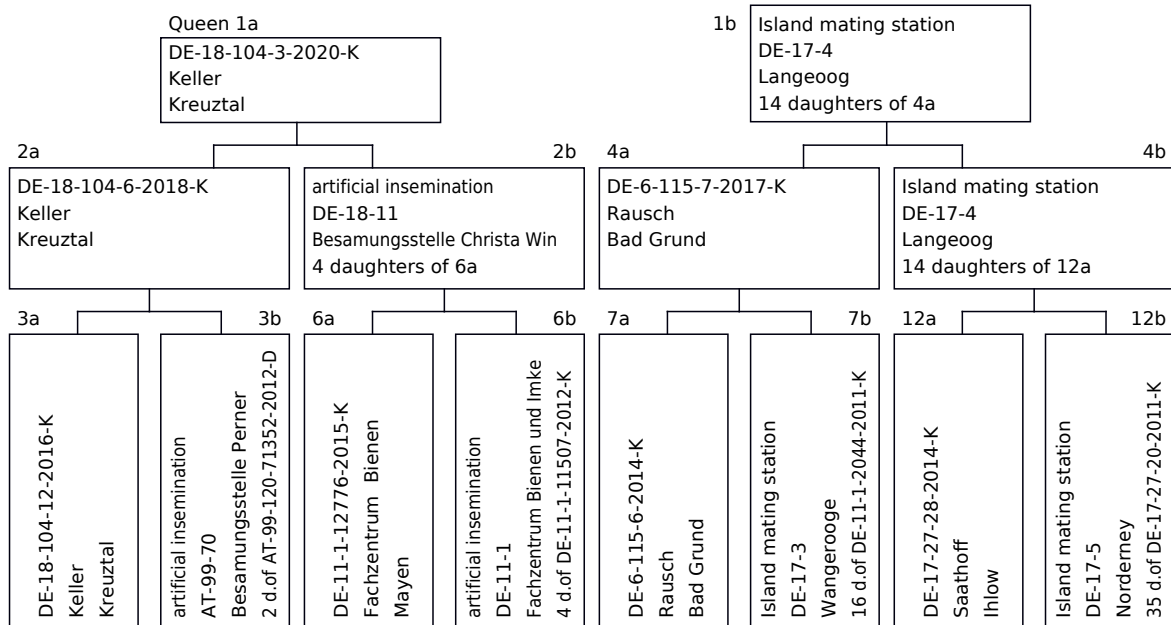
Tester of the queen: Keller, Frank, 57223 Kreuztal, DE-18-104, Apiary 1
Breeder of the queen: Keller, Frank, 57223 Kreuztal, DE-18-104
1a Studbook number: **DE-18-104-3-2020-K**

Race line: -CP
Generation: 13

Sign: blue 18
Hatch date: 17.06.2020

Daughters of
Queen: 1.9%
Workers: 1.6%

A. Pedigree



B. Own performance

| Performance test year | No. of the colony 3 | | | comparable colonies at the apiary | | |
|---|---------------------|-----------------|---------|-----------------------------------|------------------|------|
| | kg | % | Ranking | number | Yield average kg | |
| | 40 | 115.4 | 2 | 6 | 34.7 | |
| | Assessment* | Breeding values | | | Reliability | |
| Total breeding value¹ | - | 112 | | | | |
| Honey yield | - | 111 | | | | 0.36 |
| Defensive behavior | 4 | 107 | | | | 0.45 |
| Steadiness on comb | 4 | 107 | | | | 0.44 |
| Swarming drive | 4 | 114 | | | | 0.35 |
| Varroa | - | 108 | | | | 0.42 |
| Performance index | - | 111 | | | | 0.36 |
| Robustness in winter | 4 | | 70% | 100% | 170% | |
| Development in Spring | 4 | | | | | |
| Colony strength | 4 | | | | | |

¹In accordance with the resolution of the breeder convention of 9th April 2011, for the total breeding value, Varroa tolerance is weighted by 40% and honey yield, gentleness, calmness during inspection, and swarming tendency are each weighted by 15%.

C. Performance of the sisters

See page 2

D. Body features, see appendix

See attached characteristic documents:

E. Results

Class Av

Selected for Varroa tolerance. Suitable for breeding with no restrictions; suitable for use as a 4a colony at frequently visited mating stations.

Breeding selection report DE-18-104-3-2020-K

Page 2

Performance of the sisters

Amount of checked sisters: 13

| Studbook number | Tester of the queen | Apiary | Total breeding value | Yield kg | Breeding Value Honey | Defensive behavior | Breeding Value Defensive | Calmness during inspection | Breeding Value Calmness | Swarming drive | Breeding Value Swarming | Varroa-index | Performance ndex |
|--------------------|---------------------|--------|----------------------|----------|----------------------|--------------------|--------------------------|----------------------------|-------------------------|----------------|-------------------------|--------------|------------------|
| DE-18-104-1-2020 | DE-18-18 | 1 | 106 | | 110 | | Behavior | | 109 | | 106 | (104) | 105 |
| DE-18-104-2-2020 | DE-18-18 | 1 | 112 | | 113 | | | | 108 | | 120 | (104) | 113 |
| DE-18-104-3-2020-K | DE-18-104 | 1 | 112 | 40 | 111 | 4 | 107 | 4 | 107 | 4 | 114 | 108 | 111 |
| DE-18-104-4-2020-K | DE-18-104 | 1 | 110 | 40 | 111 | 3.8 | 105 | 4 | 105 | 4 | 113 | 105 | 110 |
| DE-18-104-5-2020 | DE-18-104 | 1 | 107 | 32 | 108 | 3.8 | 105 | 4 | 105 | 4 | 113 | 101 | 109 |
| DE-18-104-6-2020 | DE-18-104 | 1 | 112 | 40 | 111 | 4 | 107 | 4 | 107 | 4 | 114 | 108 | 111 |
| DE-18-104-7-2020 | DE-18-104 | 1 | 105 | 24 | 105 | 3.8 | 105 | 4 | 105 | 4 | 112 | 98 | 108 |
| DE-18-104-8-2020 | DE-18-104 | 1 | 109 | 32 | 108 | 3.8 | 105 | 4 | 105 | 4 | 113 | 105 | 109 |
| DE-18-104-9-2020 | DE-18-104 | 2 | 106 | 24 | 107 | 3.6 | 103 | 3.6 | 102 | 4 | 112 | 102 | 107 |
| DE-18-104-10-2020 | DE-18-104 | 2 | 111 | 32 | 112 | 3.8 | 107 | 4 | 107 | 4 | 114 | 107 | 111 |
| DE-18-104-11-2020 | DE-18-104 | 2 | 106 | 24 | 107 | 3.8 | 107 | 4 | 107 | 4 | 113 | 98 | 110 |
| DE-18-104-12-2020 | DE-18-104 | 2 | 111 | 30 | 111 | 3.8 | 107 | 4 | 107 | 4 | 114 | 107 | 111 |
| DE-18-104-13-2020 | DE-18-104 | 2 | 111 | 26 | 108 | 3.6 | 105 | 4 | 106 | 4 | 113 | 108 | 109 |