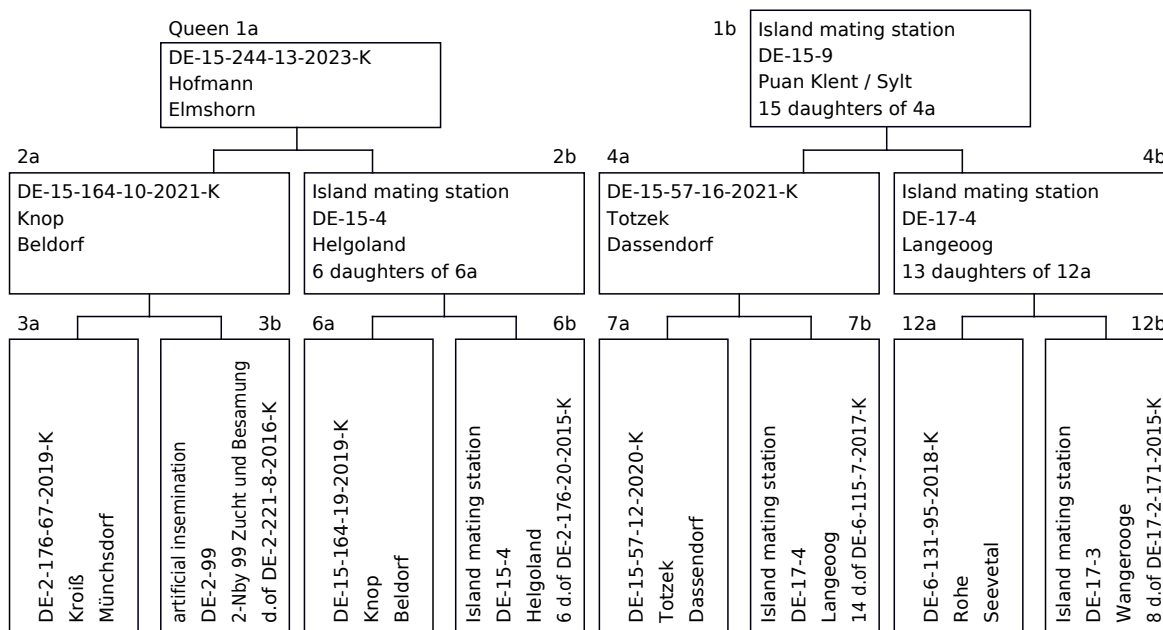


Tester of the queen: Hofmann, Matthias, 25336 Elmshorn, DE-15-244, Apiary 2
 Breeder of the queen: Hofmann, Matthias, 25336 Elmshorn, DE-15-244
1a Studbook number: **DE-15-244-13-2023-K**

Race line: Sign: red 14 Daughters of Queen: 1.8%
 Generation: Hatch date: 30.06.2023 Workers: 1.2%

A. Pedigree



B. Own performance

| Performance test year | No. of the colony | | | comparable colonies at the apiary | |
|---|-------------------|-----------------|---------|-----------------------------------|------------------|
| | kg | % | Ranking | number | Yield average kg |
| | 35.6 | 92.8 | 5 | 8 | 38.4 |
| | Assessment* | Breeding values | | | Reliability |
| Total breeding value¹ | - | 114 | | | |
| Honey yield | - | 115 | | | 0.3 |
| Defensive behavior | 4 | 115 | | | 0.39 |
| Steadiness on comb | 3.50 | 113 | | | 0.38 |
| Swarming drive | 4 | 107 | | | 0.32 |
| Varroa | - | 107* | | | 0.32 |
| Performance index | - | 115 | | | 0.3 |
| 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%.

Only one Varroa trait was recorded

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-15-244-13-2023-K

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Performance of the sisters

Amount of checked sisters: 16

| Studbook number | Tester of the queen | Apiary | Total breeding value | Yield kg | Breeding Value Honey | Defensive behavior | Breeding Value Defensive Behavior | Calmness during inspection | Breeding Value Calmness | Swarming drive | Breeding Value Swarming | Varroa-index | Performance index |
|---------------------|---------------------|--------|----------------------|----------|----------------------|--------------------|-----------------------------------|----------------------------|-------------------------|----------------|-------------------------|--------------|-------------------|
| DE-15-244-1-2023 | DE-15-244 | 1 | 113 | 54.3 | 115 | 4 | 115 | 3.5 | 109 | 4 | 108 | 108* | 112 |
| DE-15-244-2-2023 | DE-15-244 | 1 | 107 | | (113) | 3 | 103 | 3.5 | 105 | 4 | 105 | (104) | 107 |
| DE-15-244-3-2023 | DE-15-244 | 1 | 111 | 24.3 | 116 | 4 | 113 | 4 | 113 | 4 | 108 | 102* | 115 |
| DE-15-244-4-2023** | DE-15-244 | 1 | 110 | | (115) | | (109) | | (109) | | (106) | (104) | 112 |
| DE-15-244-5-2023** | DE-15-244 | 1 | 110 | | (115) | | (109) | | (109) | | (106) | (104) | 112 |
| DE-15-244-6-2023 | DE-15-244 | 1 | 109 | 27.5 | 114 | 3.5 | 107 | 3.5 | 107 | 4 | 105 | 104* | 110 |
| DE-15-244-7-2023-K | DE-15-244 | 1 | 111 | 29.7 | 116 | 4 | 113 | 4 | 113 | 4 | 107 | 101* | 115 |
| DE-15-244-8-2023 | DE-15-244 | 1 | 110 | 33.1 | 116 | 4 | 111 | 3.5 | 109 | 4 | 106 | 103* | 112 |
| DE-15-244-9-2023-K | DE-15-244 | 2 | 112 | 60.9 | 119 | 4 | 117 | 4 | 117 | 4 | 108 | 100* | 118 |
| DE-15-244-10-2023 | DE-15-244 | 2 | 111 | 33.9 | 116 | 4 | 115 | 3.5 | 113 | 4 | 107 | 102* | 115 |
| DE-15-244-11-2023 | DE-15-244 | 2 | 107 | 36 | 113 | 2.5 | 100 | 3 | 102 | 4 | 106 | 104* | 106 |
| DE-15-244-12-2023 | DE-15-244 | 2 | 108 | 21.1 | 114 | 3 | 104 | 3 | 104 | 4 | 106 | 103* | 108 |
| DE-15-244-13-2023-K | DE-15-244 | 2 | 114 | 35.6 | 115 | 4 | 115 | 3.5 | 113 | 4 | 107 | 107* | 115 |
| DE-15-244-14-2023 | DE-15-244 | 2 | 110 | 35 | 114 | 3.5 | 108 | 3 | 107 | 4 | 106 | 105* | 110 |
| DE-15-244-15-2023 | DE-15-244 | 2 | 115 | 41.6 | 116 | 4 | 117 | 4 | 117 | 4 | 108 | 107* | 117 |
| DE-15-244-16-2023 | DE-15-244 | 2 | 106 | 42.7 | 114 | 2.5 | 100 | 3 | 102 | 3.5 | 103 | 103* | 106 |

Only one Varroa trait was recorded

Colony without performance tests