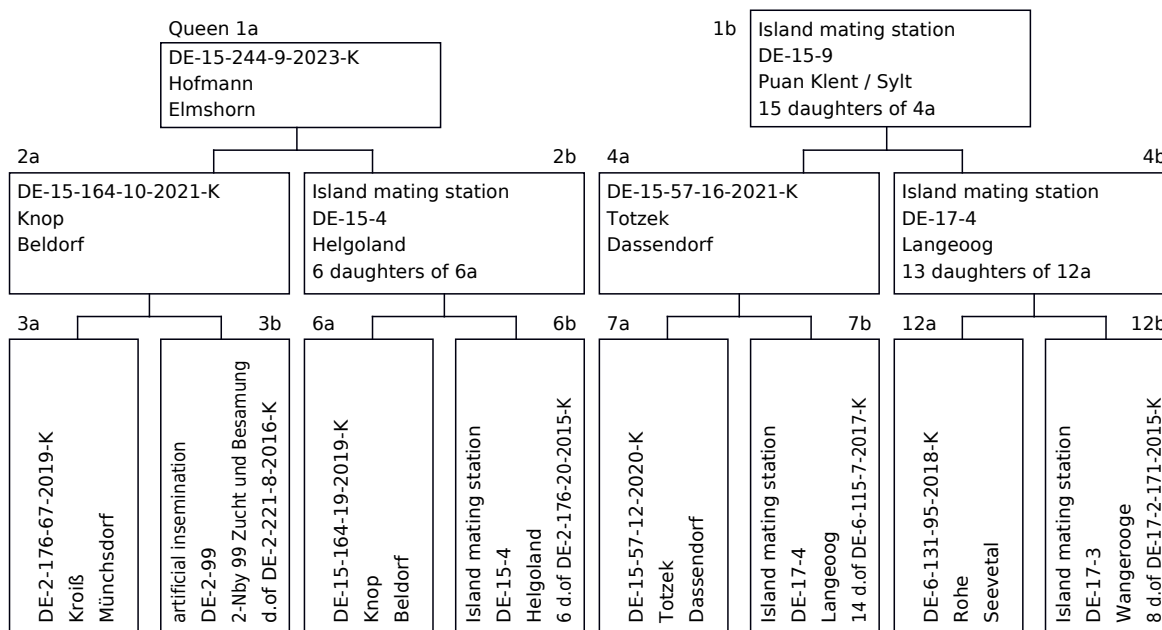


Tester of the queen: Hofmann, Matthias, 25336 Elmshorn, DE-15-244, Apiary 2
 Breeder of the queen: Hofmann, Matthias, 25336 Elmshorn, DE-15-244
1a Studbook number: **DE-15-244-9-2023-K**

Race line: Sign: red 8 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
	60.9	158.8	1	8	38.4
	Assessment*	Breeding values			Reliability
Total breeding value¹	-	112			
Honey yield	-	119			0.3
Defensive behavior	4	117			0.39
Steadiness on comb	4	117			0.38
Swarming drive	4	108			0.32
Varroa	-	100*			0.32
Performance index	-	118			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-15-244-9-2023-K

Page 2

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