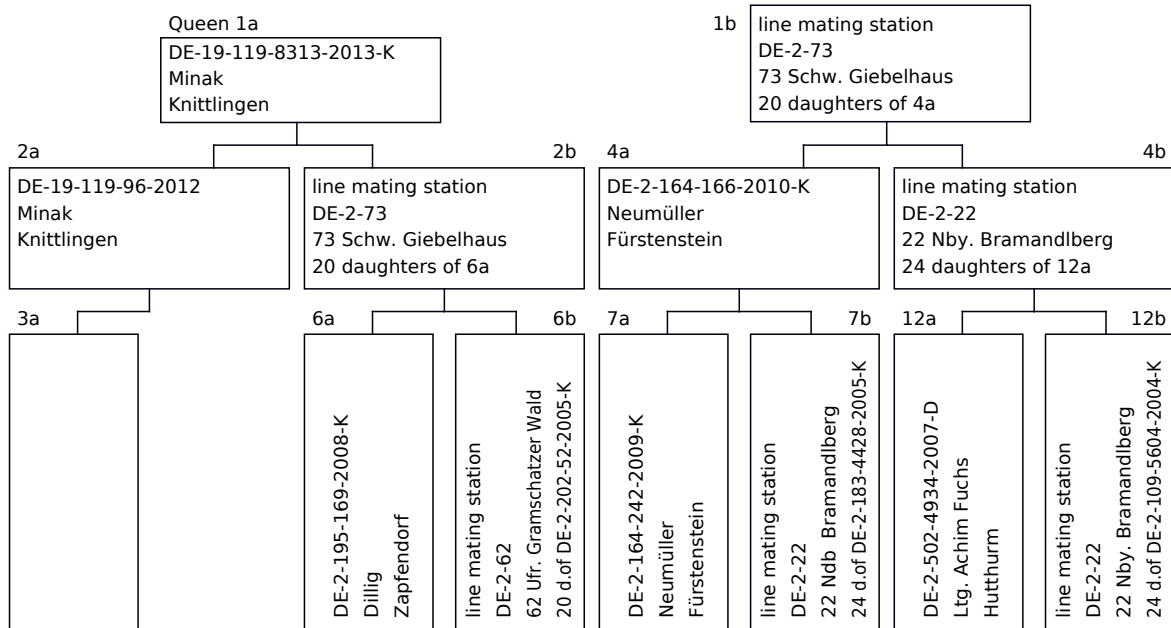


Tester of the queen: Rimmele, Martin, 88361 Altshausen, DE-19-9, Apiary 1
 Breeder of the queen: Minak, Wilfried, 75438 Knittlingen, DE-19-119
1a Studbook number: **DE-19-119-8313-2013-K**

Race line: Sign: red Daughters of Queen: 0.0%
 Generation: Hatch date: Workers: 0.0%

A. Pedigree



B. Own performance

Performance test year	No. of the colony			comparable colonies at the apiary		
	kg	%	Ranking	number	Yield average kg	
	57.1	117.9	5	8	48.4	
	Assessment*		Breeding values			Reliability
Total breeding value¹	-	107				
Honey yield	-	106				0.41
Defensive behavior	3.80	112				0.6
Steadiness on comb	3.80	111				0.6
Swarming drive	4	103				0.37
Varroa	-	99				0.32
Performance index	-	0				
Robustness in winter			70%	100%	170%	
Development in Spring						
Colony strength						

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-19-119-8313-2013-K

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Performance of the sisters

Amount of checked sisters: 10

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-19-119-4313-2013	DE-19-7	1	94		101		100		100		100	(98)	
DE-19-119-3113-2013	DE-19-9	1	86	21.2	82	2.8	89	2.8	89	4	95	93	
DE-19-119-8313-2013-K	DE-19-9	1	107	57.1	106	3.8	112	3.8	111	4	103	99	
DE-19-119-6913-2013	DE-19-104	1	97		95		103		103		92	(98)	
DE-19-119-7013-2013	DE-19-117	1	105		116		108		108		94	(98)	
DE-19-119-39-2013	DE-19-119	1	103		103		106		107		100	(98)	
DE-19-119-55-2013	DE-19-119	1	100		98		104		102		100	(98)	
DE-19-119-85-2013	DE-19-119	1	95		101		95		89		99	(98)	
DE-19-119-3613-2013	DE-19-141	1	106		99		116		115		100	(98)	
DE-19-119-5213-2013	DE-19-144	1	103		102		115		114		87	(98)	