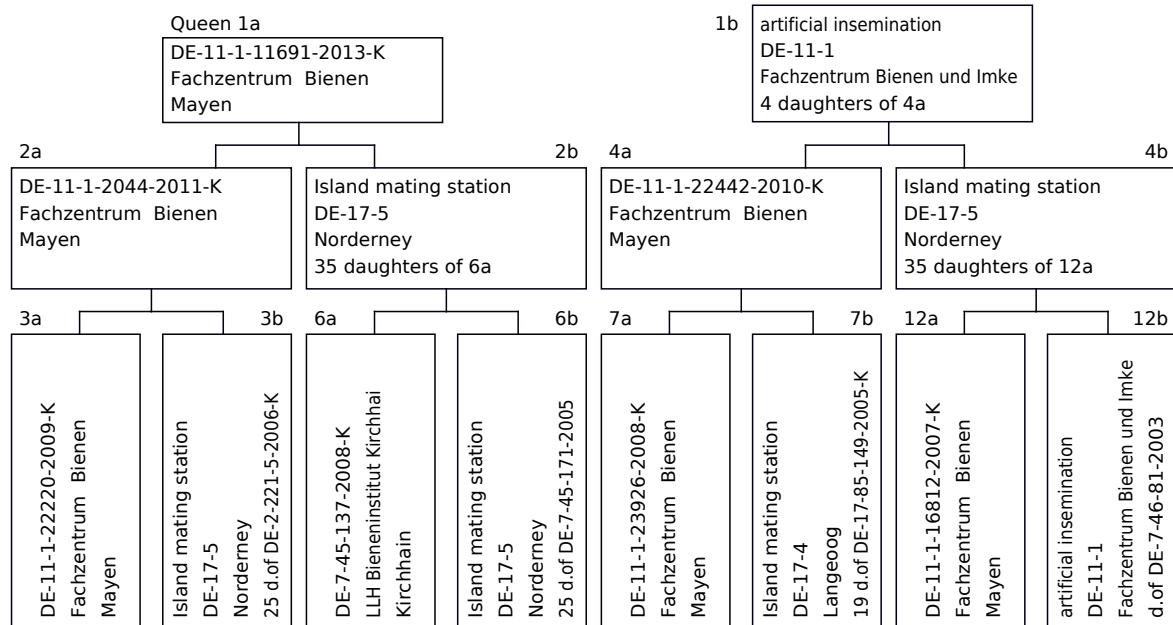


Tester of the queen: Fachzentrum Bienen, Mayen, 56727 Mayen, DE-11-1, Apiary 13  
 Breeder of the queen: Fachzentrum Bienen, Mayen, 56727 Mayen, DE-11-1  
**1a** Studbook number: **DE-11-1-11691-2013-K**

Race line: -72 Sign: red 91 Daughters of Queen: 0.6%  
 Generation: 5 Hatch date: 11.06.2013 Workers: 0.8%

### A. Pedigree



### B. Own performance

Performance test year	No. of the colony 508			comparable colonies at the apiary	
	kg	%	Ranking	number	Yield average kg
	37.8	141.9	1	13	26.6
	Assessment*	Breeding values			Reliability
<b>Total breeding value<sup>1</sup></b>	-	117			
Honey yield	-	116			0.42
Defensive behavior	3.70	106			0.62
Steadiness on comb	3.70	105			0.65
Swarming drive	4	107			0.42
Varroa	-	120			0.52
Performance index	-	0			
Robustness in winter			70%	100%	170%
Development in Spring					
Colony strength					

<sup>1</sup>In 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 A

Suitable for breeding with no restrictions; suitable for use as a 4a colony at frequently visited mating stations (all customary breeding values over 100).

# Breeding selection report DE-11-1-11691-2013-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	Calmness during inspection	Breeding Value Calmness	Swarming drive	Breeding Value Swarming	Varroa-index	Performance index
DE-2-283-15-2013	DE-2-283	2	91		95		Behavior		ding		dyge	93	
DE-2-283-19-2013	DE-2-283	2	106		104		95		inspection		93	115*	
DE-2-283-23-2013-K	DE-2-283	2	112		119		107		108		119	104	
DE-11-1-11687-2013-K	DE-11-1	5	114	35.1	113	4	108	3.9	108	4	112	112	
DE-11-1-11691-2013-K	DE-11-1	13	117	37.8	116	3.7	106	3.7	105	4	107	120	
DE-11-1-11692-2013-K	DE-11-1	17	112	13.1	104	4	111	4	111	4	107	111	
DE-11-1-12406-2013	DE-11-1	17	97	21.6	106	3.6	92	3.8	94	4	101	97	
DE-11-1-11697-2013	DE-11-1	20	130	61.8	127	3.6	118	3.1	117	2	115	130	
DE-11-1-11694-2013	DE-11-63	1	112		110		109		109		110	108	
DE-11-1-11688-2013	DE-11-139	9	116		114		103		102		103	123	
DE-11-1-11690-2013	DE-11-139	9	111		102		87		84		87	137	
DE-12-37-1457-2013	DE-12-37	1	105		116		96		97		100	105	
DE-12-37-1458-2013-K	DE-12-37	1	131		123		122		121		123	126	
DE-12-37-1459-2013	DE-12-37	1	124		123		113		112		119	122	
DE-12-37-1460-2013	DE-12-37	1	107		105		98		97		100	114	
DE-12-37-1461-2013	DE-12-37	1	119		102		99		96		103	138	

Only one Varroa trait was recorded