

# PEDIGREE CONSULTING REPORT

## GÜLNUR

Arabian · Born: 2005 · EMAEL × MEBRUKÉ 87

|               |                                                                 |
|---------------|-----------------------------------------------------------------|
| Report Number | UAT-18313-20260808                                              |
| GHN ID        | TRAK005-TLTQ                                                    |
| Report Date   | August 08, 2026                                                 |
| Prepared By   | Alper BALCI — UAT Racing                                        |
| Scope         | Turkey Active Stallions   Pedigree Inbreeding & Dosage Analysis |

This report ranks the most compatible mating candidates among active stallions in Turkey using Wright's F coefficient, Dosage Index and international performance statistics for your mare.

1. MARE PROFILE

|                |              |             |                     |
|----------------|--------------|-------------|---------------------|
| Name           | GÜLNUR       | Breed       | Arabian             |
| Birth Year     | 2005         | Sire        | EMAEL               |
| Dam            | MEBRUKE 87   | Race Record | 12 wins / 92 starts |
| Total Earnings | 376.650 TL   |             |                     |
| GHN ID         | TRAK005-TLTQ |             |                     |

This horse's identity can be verified at [uatracing.com/ghn/TRAK005-TLTQ](https://uatracing.com/ghn/TRAK005-TLTQ). GHN (Global Horse Number) is UAT Racing's universal horse identification system.

Dosage Index (DI)

|                             |                |                   |           |
|-----------------------------|----------------|-------------------|-----------|
| Dosage Profile (DP)         | 0-8.0-4.0-0-16 | Dosage Index (DI) | 0.56      |
| Center of Distribution (CD) | 0.86           | Distance Aptitude | Endurance |

DI Scope: UAT Database

Pedigree Quality

|                                       |                                 |
|---------------------------------------|---------------------------------|
| Equivalent Complete Generations (EcG) | Ancestor Loss Coefficient (ALC) |
| 4.81                                  | 53.97% (Moderate repetition)    |

58/126 unique ancestors (6 gen) | Measures known depth of pedigree tree. Higher = more reliable analysis.

Mare profile sourced from UAT Racing database. Pedigree analysis covers up to 6 generations.

2. PEDIGREE CHART (5 GENERATIONS)

|                       |                      |                        |                        |                           |
|-----------------------|----------------------|------------------------|------------------------|---------------------------|
| EMAEL (US)<br>1988 b  | PALAS (BR)<br>1968 b | ASWAN<br>2016 b        | NAZEER<br>1934 b       | MANSOUR                   |
|                       |                      |                        | YOSREIA<br>1943 ch     | BINT SAMIHA               |
|                       |                      | PANEL<br>1960 b        | NIL<br>1951 ch         | SKETEH EL ABAB            |
|                       |                      |                        | PLATINA<br>1950 ch     | HIND                      |
|                       |                      |                        |                        | SID ABOUHOM<br>1936 gr    |
|                       | EJNIA (BR)<br>1980 b | ALGOMEJ<br>1973 b      | CELEBES (BR)<br>1949 b | MALAKA                    |
|                       |                      |                        | ALGONKINA<br>1961 b    | PRIBOJ                    |
|                       |                      | EUFORIA (BR)<br>1974 b | BANDOS (BR)<br>1964 b  | TARTIKA                   |
|                       |                      |                        | EUFONIA (BG)<br>1966 b | WITRAZ (BR)<br>1938 b     |
|                       |                      |                        |                        | CANARIA (BR)<br>1942 ch   |
| MEBRUKE 87<br>1989 ch | HAVUÇEROL<br>1977 ch | UĞURBEY<br>1967 ch     | HÜCUM<br>1957 ch       | PIETUSZOK (BR)<br>1954 ch |
|                       |                      |                        | MAHSUSE 34<br>1960 ch  | ALGA (NZ)                 |
|                       |                      | K IRAK 17<br>1967 ch   | AKBATUR<br>1960 ch     | NEGATIV                   |
|                       |                      |                        | K IRAK 7<br>1956 b     | BANDOLA                   |
|                       |                      |                        |                        | DOKTRYNER (BR)<br>1900 ch |
|                       | MEBRUKE 73<br>1981 b | SATVET<br>1968 ch      | AKBATUR<br>1960 ch     | EUNICE (NZ)               |
|                       |                      |                        | K IRAK 4<br>1950 ch    |                           |
|                       |                      | MEBRUKE 64<br>1970 ch  | ÜNAL<br>1959 ch        |                           |
|                       |                      |                        | MEBRUKE 52<br>1965 ch  |                           |
|                       |                      |                        |                        | SAVA 1937<br>1937 ch      |
|                       |                      |                        |                        | SAMIHA 1<br>1938 ch       |
|                       |                      |                        |                        | ALKURUŞ 4/44<br>1944 ch   |
|                       |                      |                        |                        | MAHSUSE 23<br>1960 ch     |
|                       |                      |                        |                        | SA'D 3<br>1951            |
|                       |                      |                        |                        | ZAHİDE 11<br>1950 ch      |
|                       |                      |                        |                        | FİŞFİŞ<br>1992 ch         |
|                       |                      |                        |                        | K IRAK 5<br>1951 ch       |
|                       |                      |                        |                        | SA'D 3<br>1951            |
|                       |                      |                        |                        | ZAHİDE 11<br>1950 ch      |
|                       |                      |                        |                        | TARZAN<br>1938 ch         |
|                       |                      |                        |                        | K IRAK 2<br>1941 ch       |
|                       |                      |                        |                        | FİŞFİŞ<br>1992 ch         |
|                       |                      |                        |                        | MAHİDE 5<br>1950 ch       |
|                       |                      |                        |                        | CANBERK<br>1957 ch        |
|                       |                      |                        |                        | MEBRUKE 26<br>1953 ch     |

Sources: UAT Stud Book (51 ancestors) · International Register (3) · GHN Universe (0) · Name only (8). A GHN match is accepted only when breed, sex and foaling-year constraints leave a single candidate; ambiguous matches are not linked.

The black type mark is based on TJK group race records (1990–2026). Group races won under foreign registries fall outside its scope — an unmarked ancestor is not necessarily without black type.

Inbreeding (ancestors duplicated within 5 generations)

AKBATUR: 4D × 4D · SA'D 3: 5D × 5D · ZAHİDE 11: 5D × 5D · FİŞFİŞ: 5D × 5D

Yellow fill = ancestor appearing more than once within 5 generations. **Dark red bold** = group race winner (black type). Cell: name · foaling year · colour. Notation: 4S × 5D = 4th generation on the sire side, 5th on the dam side.

MARE PERFORMANCE ANALYSIS

|              |            |          |
|--------------|------------|----------|
| Total Starts | Total Wins | Win Rate |
|--------------|------------|----------|

|    |    |       |
|----|----|-------|
| 92 | 12 | 13.0% |
|----|----|-------|

| Strong Points                                | Weak Points / Areas to Improve          |
|----------------------------------------------|-----------------------------------------|
| ✓ Surface Performance: Turf (Good) (20%)     | △ Surface Performance: Sand (Wet) (0%)  |
| ✓ Surface Performance: Turf (Yielding) (25%) | △ Surface Performance: Turf (Soft) (0%) |
| ✓ Distance Aptitude: Mile (1200-1600m) (15%) |                                         |

### STALLION SELECTION CRITERIA

Based on the mare's performance profile and genetic analysis, the following characteristics are recommended in stallion candidates:

| Criterion                                | Rationale                                                 |
|------------------------------------------|-----------------------------------------------------------|
| • Mare's best surface: Turf (Good)       | Prefer stallion with successful offspring on same surface |
| • Distance aptitude: Mile (1200-1600m)   | Profile to support mare's strongest distance range        |
| • DI-compatible stallion (Mare DI: 0.56) | Distance aptitude: Endurance                              |
| • Wright's F in 2-4% range (Good Nick)   | Inbreeding level should be in the ideal range             |

### 3. METHODOLOGY

- Wright's F Coefficient:** When two horses share common ancestors, this mathematically quantifies the degree of inbreeding in a hypothetical foal's pedigree. Formula:  $F = \sum (1/2)^{(n_1+n_2+1)}$ .
- Nick System:** Based on the correlation between certain F% ranges and breeding quality. The most successful matings fall in the 2–4% range (Good Nick).
- Dosage Index (DI):** Dr. Steven Roman's Chef-de-Race system. Predicts distance aptitude from the B-I-C-S-P distribution of influential sires in the pedigree. DI > 4 = Speed, DI ≈ 1–2.5 = Classic.
- Compatibility Score:** Weighted average of Nick score (40%), stallion progeny win rate (40%) and DI compatibility bonus (20%). Scored out of 100.

#### Nick Scale

| Code   | F% Range | Nick Name   | Score |
|--------|----------|-------------|-------|
| none   | 0%       | Outcross    | 40    |
| trace  | <0.8%    | Trace       | 50    |
| mild   | 0.8%–2%  | Mild Nick   | 70    |
| good   | 2%–4%    | Good Nick ✓ | 90    |
| strong | 4%–7%    | Strong Nick | 80    |
| high   | 7%–12.5% | High Nick   | 55    |

|        |        |             |    |
|--------|--------|-------------|----|
| danger | >12.5% | Danger Nick | 20 |
|--------|--------|-------------|----|

5. STALLION RECOMMENDATIONS — TOP 10 FOR GÜLNUR

| #  | Stallion Name  | F%    | Nick        | Progeny W% | Progeny | DI  | Compat. |
|----|----------------|-------|-------------|------------|---------|-----|---------|
| 1  | ALDEM          | %3.17 | Good Nick ✓ | 15.4%      | 21      | 1.5 | 95      |
| 2  | KAN KILIÇ BEYİ | %2.22 | Good Nick ✓ | 14.3%      | 2       | 1.2 | 95      |
| 3  | MÜNÜR          | %3.22 | Good Nick ✓ | 14.3%      | 440     | 1.4 | 95      |
| 4  | SABOŞ          | %2.43 | Good Nick ✓ | 16.7%      | 5       | 0.9 | 95      |
| 5  | ŞAEN           | %2.00 | Good Nick ✓ | 14.8%      | 360     | 1.2 | 95      |
| 6  | ŞEFDER OĞLU    | %3.14 | Good Nick ✓ | 15.0%      | 24      | 0.6 | 95      |
| 7  | TALISKA        | %2.86 | Good Nick ✓ | 14.9%      | 37      | 1.2 | 95      |
| 8  | İHTİYAR        | %2.51 | Good Nick ✓ | 15.8%      | 12      | 2.7 | 88      |
| 9  | KAFKASLAÇIN    | %3.53 | Good Nick ✓ | 12.4%      | 40      | 1.9 | 87      |
| 10 | DEDE DORUK     | %4.48 | Strong Nick | 32.6%      | 15      | 3.3 | 84      |

★ Detailed analysis for the top 3 stallions follows in the next section.

6. DETAILED STALLION ANALYSIS (TOP 3)

5.1 ALDEM — #1 · GHN TRAE010-GCD2

| Compat. Score | F Coefficient | Nick        | Birth Year | DI   |
|---------------|---------------|-------------|------------|------|
| 95            | 3.17%         | Good Nick ✓ | 2010       | 1.52 |

**Pedigree:** ALDEM (by ERBEYİM out of MİNNOŞ)

**Nick Assessment:** 2%-4% — Good Nick ✓

Turkey Progeny Statistics

| Progeny Count | Total Starts | Total Wins | Win Rate |
|---------------|--------------|------------|----------|
| 21            | 110          | 17         | 15.4%    |

No international progeny data found for this stallion.

Hypothetical Foal Dosage Estimate

| Mare DI | Stallion DI | Estimated Foal DI | Estimated Distance Aptitude |
|---------|-------------|-------------------|-----------------------------|
| 0.56    | 1.52        | 0.97              | Stamina                     |

Mare and stallion DI profiles show excellent compatibility.

Common Ancestors (by Wright's F contribution)

| Ancestor | Contrib. % | Sire Gen | Dam Gen |
|----------|------------|----------|---------|
| SATVET   | %1.2       | 3        | 3       |
| K IRAK 4 | %0.3       | 4        | 4       |
| AKBATUR  | %0.3       | 4        | 4       |
| ÜNAL     | %0.2       | 4        | 4       |
| HÜCUM    | %0.2       | 4        | 4       |
| CANBERK  | %0.1       | 4        | 5       |

UAT Assessment: Wright's F of 3.17% falls in the ideal nick range (2–4%). ALDEM has a strong record in Turkey with a 15.4% win rate. Estimated foal DI: 0.97 (Stamina). Overall compatibility score: 95/100.

5.2 KAN KILIÇ BEYİ — #2 · GHN TRAE011-J9FN

| Compat. Score | F Coefficient | Nick        | Birth Year | DI  |
|---------------|---------------|-------------|------------|-----|
| 95            | 2.22%         | Good Nick ✓ | 2011       | 1.2 |

**Pedigree:** KAN KILIÇ BEYİ (by HASTAY out of CANGÜLO)

**Nick Assessment:** 2%–4% — Good Nick ✓

Turkey Progeny Statistics

| Progeny Count | Total Starts | Total Wins | Win Rate |
|---------------|--------------|------------|----------|
| 2             | 7            | 1          | 14.3%    |

No international progeny data found for this stallion.

Hypothetical Foal Dosage Estimate

| Mare DI | Stallion DI | Estimated Foal DI | Estimated Distance Aptitude |
|---------|-------------|-------------------|-----------------------------|
| 0.56    | 1.2         | 0.89              | Stamina                     |

Mare and stallion DI profiles show excellent compatibility.

Common Ancestors (by Wright's F contribution)

| Ancestor | Contrib. % | Sire Gen | Dam Gen |
|----------|------------|----------|---------|
| SATVET   | %0.8       | 4        | 3       |

|          |      |   |   |
|----------|------|---|---|
| ÜNAL     | %0.2 | 4 | 4 |
| K IRAK 4 | %0.2 | 5 | 4 |
| AKBATUR  | %0.2 | 5 | 4 |
| CANBERK  | %0.1 | 4 | 5 |
| MAHİDE 5 | %0.1 | 5 | 5 |

UAT Assessment: Wright's F of 2.22% falls in the ideal nick range (2–4%). KAN KILIÇ BEYİ has a strong record in Turkey with a 14.3% win rate. Estimated foal DI: 0.89 (Stamina). Overall compatibility score: 95/100.

5.3 MÜNÜR — #3 · GHN TRAE004-3FRW

| Compat. Score | F Coefficient | Nick        | Birth Year | DI   |
|---------------|---------------|-------------|------------|------|
| 95            | 3.22%         | Good Nick ✓ | 2004       | 1.35 |

**Pedigree:** MÜNÜR (by DEVİRHAN out of NEZİRHAN)

**Nick Assessment:** 2%–4% — Good Nick ✓

Turkey Progeny Statistics

| Progeny Count | Total Starts | Total Wins | Win Rate |
|---------------|--------------|------------|----------|
| 440           | 6925         | 991        | 14.3%    |

No international progeny data found for this stallion.

Hypothetical Foal Dosage Estimate

| Mare DI | Stallion DI | Estimated Foal DI | Estimated Distance Aptitude |
|---------|-------------|-------------------|-----------------------------|
| 0.56    | 1.35        | 0.94              | Stamina                     |

Mare and stallion DI profiles show excellent compatibility.

Common Ancestors (by Wright's F contribution)

| Ancestor | Contrib. % | Sire Gen | Dam Gen |
|----------|------------|----------|---------|
| SATVET   | %1.3       | 3        | 3       |
| K IRAK 4 | %0.3       | 4        | 4       |
| AKBATUR  | %0.3       | 4        | 4       |
| FİŞFİŞ   | %0.3       | 4        | 5       |
| ÜNAL     | %0.2       | 4        | 4       |

|         |             |   |   |
|---------|-------------|---|---|
| CANBERK | <b>%0.1</b> | 4 | 5 |
|---------|-------------|---|---|

□ UAT Assessment: Wright's F of 3.22% falls in the ideal nick range (2–4%). MÜNÜR has a strong record in Turkey with a 14.3% win rate. Estimated foal DI: 0.94 (Stamina). Overall compatibility score: 95/100.

## 8. GLOSSARY & DISCLAIMER

- **Wright's F Coefficient:** The probability of an individual being homozygous at a given locus. Developed by Sewall Wright (1922).
- **Nick:** The tendency of certain bloodline combinations to produce above-average performance.
- **Dosage Index:** Speed points  $(B+I+C/2)$  / Stamina points  $(C/2+S+P)$ . High DI = sprint/speed, Low DI = distance/stamina.
- **Center of Distribution (CD):**  $(2B + I - S - 2P) / \text{total}$ . +1 = speed, -1 = distance.
- **Outcross:** No measurable inbreeding in the pedigree.  $F = 0$ .
- **EcG (Equivalent Complete Generations):** Sum of  $1/2^n$  for every known ancestor ( $n$  = generational distance). Calculated per Doekes (2016).
- **ALC (Ancestor Loss Coefficient):**  $1 - (\text{unique ancestors} / \text{max possible})$ . High values indicate extensive ancestor repetition in the pedigree.

This report was prepared by UAT Racing (Alper BALCI) using available database and mathematical models. Breeding decisions should always be guided by veterinary examination, health history, physical compatibility and breeder experience. International data compiled from Equibase, JAIRS and Racing South Africa. © UAT Racing — [uatracing.com](http://uatracing.com)