# Cyberscope

## Audit Report

# RaceGenesis

November 2022

| | |
|---|---|
| Type | BEP-20 |
| Network | BNB Chain |
| Address | 0x601A9575F7931daa2e1EB8f55bD73F964E42e378 |
| Audited by | © cyberscope |

# Table of Contents

# Contract Review

| Contract Name | RaceGenesis |
|---|---|
| Compiler Version | v0.8.9+commit.e5eed63a |
| Optimization | 0 runs |
| Explorer | https://bscscan.com/token/0x601A9575F7931daa2e1EB8f55bD73F964E42e378 |
| Symbol | RACE |
| Decimals | 9 |
| Total Supply | 1,000,000,000 |
| Domain | racegenesis.com |

# Source Files

| Filename | SHA256 |
|---|---|
| contract.sol | b0a80ce309dccb9dec64ff816904528e293df9369cd3e9ac5a128329ea77fbd1 |

# Audit Updates

| Initial Audit | 4th November 2022 |
|---|---|
| Corrected | |

# Contract Analysis

● Critical  ● Medium  ● Minor / Informative  ● Pass

| Severity | Code | Description | Status |
|:---:|:---|:---|:---|
| ● | ST | Stops Transactions | Passed |
| ● | OCTD | Transfers Contract's Tokens | Passed |
| ● | OTUT | Transfers User's Tokens | Passed |
| ● | ELFM | Exceeds Fees Limit | Passed |
| ● | ULTW | Transfers Liquidity to Team Wallet | Passed |
| ● | MT | Mints Tokens | Passed |
| ● | BT | Burns Tokens | Passed |
| ● | BC | Blacklists Addresses | Passed |

# Contract Diagnostics

● Critical     ● Medium     ● Minor / Informative

| Severity | Code | Description | Status |
|:---:|:---:|---|---|
| ● | L02 | State Variables could be Declared Constant | Unresolved |
| ● | L04 | Conformance to Solidity Naming Conventions | Unresolved |
| ● | L05 | Unused State Variable | Unresolved |
| ● | L07 | Missing Events Arithmetic | Unresolved |
| ● | L12 | Using Variables before Declaration | Unresolved |
| ● | L14 | Uninitialized Variables in Local Scope | Unresolved |

# L02 - State Variables could be Declared Constant

| | |
|---|---|
| **Criticality** | minor / informative |
| **Location** | contract.sol#L102,115 |
| **Status** | Unresolved |

## Description

Constant state variables should be declared constant to save gas.

```
timeSinceLastPair
taxesAreLocked
```

## Recommendation

Add the constant attribute to state variables that never change.

# L04 - Conformance to Solidity Naming Conventions

| Criticality | minor / informative |
|---|---|
| Location | contract.sol#L33,112,122,282,113,109,111,110 |
| Status | Unresolved |

## Description

Solidity defines a naming convention that should be followed. Rule exceptions:

- Allow constant variable name/symbol/decimals to be lowercase.
- Allow _ at the beginning of the mixed_case match for private variables and unused parameters.

```
WETH
_decimals
_hasLiqBeenAdded
_antiSnipe
_antiBlock
_tTotal
startingSupply
_symbol
_name
```

## Recommendation

Follow the Solidity naming convention.
https://docs.soliditylang.org/en/v0.4.25/style-guide.html#naming-conventions.

# L05 - Unused State Variable

| | |
|---|---|
| **Criticality** | minor / informative |
| **Location** | contract.sol#L102 |
| **Status** | Unresolved |

## Description

There are segments that contain unused state variables.

```
timeSinceLastPair
```

## Recommendation

Remove unused state variables.

# L07 - Missing Events Arithmetic

| | |
|---|---|
| **Criticality** | minor / informative |
| **Location** | contract.sol#L286 |
| **Status** | Unresolved |

## Description

Detected missing events for critical arithmetic parameters. There are functions that have no event emitted, so it is difficult to track off-chain changes.

```
_maxTxSellAmount = (_tTotal * percent) / divisor
```

## Recommendation

Emit an event for critical parameter changes.

# L12 - Using Variables before Declaration

| Criticality | minor / informative |
|---|---|
| Location | contract.sol#L375 |
| Status | Unresolved |

## Description

The contract is using a variable before the declaration. This is usually happening either if it has not been declared yet or the variable has been declared in a different scope.

```
check
```

## Recommendation

The variables should be declared before any usage of them.

# L14 - Uninitialized Variables in Local Scope

| Criticality | minor / informative |
|---|---|
| Location | contract.sol#L374,375 |
| Status | Unresolved |

## Description

The are variables that are defined in the local scope and are not initialized.

```
checked
check
```

## Recommendation

All the local scoped variables should be initialized.

# Contract Functions

| Contract | Type | Bases | | |
|---|---|---|---|---|
| | Function Name | Visibility | Mutability | Modifiers |
| | | | | |
| **IERC20** | Interface | | | |
| | totalSupply | External | | - |
| | decimals | External | | - |
| | symbol | External | | - |
| | name | External | | - |
| | getOwner | External | | - |
| | balanceOf | External | | - |
| | transfer | External | ✓ | - |
| | allowance | External | | - |
| | approve | External | ✓ | - |
| | transferFrom | External | ✓ | - |
| | | | | |
| **IFactoryV2** | Interface | | | |
| | getPair | External | | - |
| | createPair | External | ✓ | - |
| | | | | |
| **IV2Pair** | Interface | | | |
| | factory | External | | - |
| | getReserves | External | | - |
| | sync | External | ✓ | - |
| | | | | |
| **IRouter01** | Interface | | | |
| | factory | External | | - |
| | WETH | External | | - |
| | addLiquidityETH | External | Payable | - |
| | addLiquidity | External | ✓ | - |
| | swapExactETHForTokens | External | Payable | - |
| | getAmountsOut | External | | - |
| | getAmountsIn | External | | - |

| IRouter02 | Interface | IRouter01 | | |
|---|---|---|---|---|
| | swapExactTokensForETHSupporting FeeOnTransferTokens | External | ✓ | - |
| | swapExactETHForTokensSupporting FeeOnTransferTokens | External | Payable | - |
| | swapExactTokensForTokensSupporti ngFeeOnTransferTokens | External | ✓ | - |
| | swapExactTokensForTokens | External | ✓ | - |
| | | | | |
| Protections | Interface | | | |
| | checkUser | External | ✓ | - |
| | setLaunch | External | ✓ | - |
| | setLpPair | External | ✓ | - |
| | setProtections | External | ✓ | - |
| | removeSniper | External | ✓ | - |
| | | | | |
| RaceGenesis | Implementation | IERC20 | | |
| | <Constructor> | Public | Payable | - |
| | <Receive Ether> | External | Payable | - |
| | transferOwner | External | ✓ | onlyOwner |
| | renounceOwnership | External | ✓ | onlyOwner |
| | setOperator | Public | ✓ | - |
| | renounceOriginalDeployer | External | ✓ | - |
| | totalSupply | External | | - |
| | decimals | External | | - |
| | symbol | External | | - |
| | name | External | | - |
| | getOwner | External | | - |
| | allowance | External | | - |
| | balanceOf | Public | | - |
| | transfer | Public | ✓ | - |
| | approve | External | ✓ | - |
| | _approve | Internal | ✓ | |
| | approveContractContingency | External | ✓ | onlyOwner |
| | transferFrom | External | ✓ | - |

| | | | | |
|---|---|---|---|---|
| | setInitializer | External | ✓ | onlyOwner |
| | isExcludedFromLimits | External | | - |
| | isExcludedFromProtection | External | | - |
| | setExcludedFromLimits | External | ✓ | onlyOwner |
| | setExcludedFromProtection | External | ✓ | onlyOwner |
| | getCirculatingSupply | Public | | - |
| | removeSniper | External | ✓ | onlyOwner |
| | setProtectionSettings | External | ✓ | onlyOwner |
| | setMaxTxSellPercent | External | ✓ | onlyOwner |
| | getMaxSellTX | External | | - |
| | excludePresaleAddresses | External | ✓ | onlyOwner |
| | _hasLimits | Internal | | |
| | _transfer | Internal | ✓ | |
| | _checkLiquidityAdd | Internal | ✓ | |
| | sweepContingency | External | ✓ | onlyOwner |
| | multiSendTokens | External | ✓ | onlyOwner |
| | finalizeTransfer | Internal | ✓ | |

# Contract Flow

# Domain Info

| | |
|---|---|
| **Domain Name** | racegenesis.com |
| **Registry Domain ID** | 2515712477_DOMAIN_COM-VRSN |
| **Creation Date** | 2020-04-17T15:07:05.00Z |
| **Updated Date** | 2022-03-18T06:00:20.01Z |
| **Registry Expiry Date** | 2023-04-17T15:07:05.00Z |
| **Registrar WHOIS Server** | whois.namecheap.com |
| **Registrar URL** | http://www.namecheap.com |
| **Registrar** | NAMECHEAP INC |
| **Registrar IANA ID** | 1068 |

The domain was created over 2 years before the creation of the audit. It will expire in 5 months.

There is no public billing information, the creator is protected by the privacy settings.

# Summary

RaceGenesis is an interesting project that has a friendly and growing community. The Smart Contract analysis reported no compiler error or critical issues. The contract Owner can access some admin functions that can not be used in a malicious way to disturb the users' transactions.

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Coinscope audit and K.Y.C. service has been rebranded to Cyberscope.

Coinscope is the leading early coin listing, voting and auditing authority firm. The audit process is analyzing and monitoring many aspects of the project. That way, it gives the community a good sense of security using an informative report and a generic score.

Cyberscope and Coinscope are aiming to make crypto discoverable and efficient globally. They provide all the essential tools to assist users draw their own conclusions.

The Cyberscope team

https://www.cyberscope.io