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## KYC & AUDIT.

Novos is an agency specializing in blockchain technology solutions, Audits, KYC / Doxx.

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# CERTIFICATE OF COMPLIANCE

Smart Contract Audit by NOVOS

LAMBO DOGE

Lambo Doge | Audit Passed | August 18, 2022

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# Table of Contents

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# Audit Summary

This report has been prepared for Lambo Doge Token on the DOGECHAIN network. Novos provides both client-centered and user-centered examination of the smart contracts and their current status when applicable. This report represents the security assessment made to find issues and vulnerabilities on the source code along with the current liquidity and token holder statistics of the protocol.

A comprehensive examination has been performed, utilizing Cross Referencing, Static Analysis, In-House Security Tools, and line-by-line Manual Review.

The auditing process pays special attention to the following considerations:

- Ensuring contract logic meets the specifications and intentions of the client without exposing the user's funds to risk.
- Testing the smart contracts against both common and uncommon attack vectors.
- Inspecting liquidity and holders statistics to inform the current status to both users and client when applicable.
- Assessing the codebase to ensure compliance with current best practices and industry standards.
- Verifying contract functions that allow trusted and/or untrusted actors to mint, lock, pause, and transfer assets.
- Thorough line-by-line manual review of the entire codebase by industry experts.

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# Project Overview

| Parameter | Result |
|---|---|
| Address | 0xF3484AE003c7ce4Dcc2fC890A9544Cd383e4199a |
| Name | Lambo Doge |
| Token Tracker | $LAD |
| Decimals | 9 |
| Supply | 1,000,000,000,000 |
| Platform | DOGECHAIN |
| Compiler | v0.6.12+commit.27d51765 |
| Optimization | false |
| Other Settings: | default evmVersion |
| Language | Solidity |
| Codebase | https://explorer.dogechain.dog/address/0xF3484AE003c7ce4Dcc2fC890A9544Cd383e4199a/contracts |
| Url | https://www.lambodoge.club/ |

# Main Contract Assessed

| Name | Contract | Live |
|---|---|---|
| **Lambo Doge** | 0xF3484AE003c7ce4Dcc2fC890A9544Cd383e4199a | Yes |

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# Smart Contract Vulnerability Checks

| Vulnerability | Automatic Scan | Manual Scan | Result |
|---|---|---|---|
| ❖ Unencrypted Private Data On-Chain | ✓ Complete | ✓ Complete | ✓ **Low / No Risk** |
| ❖ Code With No Effects | ✓ Complete | ✓ Complete | ✓ **Low / No Risk** |
| ❖ Message call with hardcoded gas amount | ✓ Complete | ✓ Complete | ✓ **Low / No Risk** |
| ❖ Hash Collisions With Multiple Variable Length Arguments | ✓ Complete | ✓ Complete | ✓ **Low / No Risk** |
| ❖ Unexpected Ether balance | ✓ Complete | ✓ Complete | ✓ **Low / No Risk** |
| ❖ Presence of unused variables | ✓ Complete | ✓ Complete | ✓ **Low / No Risk** |
| ❖ Right-To-Left-Override control character (U+202E) | ✓ Complete | ✓ Complete | ✓ **Low / No Risk** |
| ❖ Typographical Error | ✓ Complete | ✓ Complete | ✓ **Low / No Risk** |
| ❖ DoS With Block Gas Limit | ✓ Complete | ✓ Complete | ✓ **Low / No Risk** |
| ❖ Arbitrary Jump with Function Type Variable | ✓ Complete | ✓ Complete | ✓ **Low / No Risk** |
| ❖ Insufficient Gas Griefing | ✓ Complete | ✓ Complete | ✓ **Low / No Risk** |
| ❖ Incorrect Inheritance Order | ✓ Complete | ✓ Complete | ✓ **Low / No Risk** |
| ❖ Write to Arbitrary Storage Location | ✓ Complete | ✓ Complete | ✓ **Low / No Risk** |
| ❖ Requirement Violation | ✓ Complete | ✓ Complete | ✓ **Low / No Risk** |
| ❖ Missing Protection against Signature Replay Attacks | ✓ Complete | ✓ Complete | ✓ **Low / No Risk** |
| ❖ Weak Sources of Randomness from Chain Attributes | ✓ Complete | ✓ Complete | ✓ **Low / No Risk** |



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# Smart Contract Vulnerability Checks

| Vulnerability | Automatic Scan | Manual Scan | Result |
|---|---|---|---|
| ❖ Authorization through tx.origin | ✓ Complete | ✓ Complete | ✓ **Low / No Risk** |
| ❖ Delegatecall to Untrusted Callee | ✓ Complete | ✓ Complete | ✓ **Low / No Risk** |
| ❖ Use of Deprecated Solidity Functions | ✓ Complete | ✓ Complete | ✓ **Low / No Risk** |
| ❖ Assert Violation | ✓ Complete | ✓ Complete | ✓ **Low / No Risk** |
| ❖ Reentrancy | ✓ Complete | ✓ Complete | ✓ **Low / No Risk** |
| ❖ Unprotected SELFDESTRUCT Instruction | ✓ Complete | ✓ Complete | ✓ **Low / No Risk** |
| ❖ Unprotected Ether Withdrawal | ✓ Complete | ✓ Complete | ✓ **Low / No Risk** |
| ❖ Unchecked Call Return Value | ✓ Complete | ✓ Complete | ✓ **Low / No Risk** |
| ❖ Outdated Compiler Version | ✓ Complete | ✓ Complete | ✓ **Low / No Risk** |
| ❖ Integer Overflow and Underflow | ✓ Complete | ✓ Complete | ✓ **Low / No Risk** |
| ❖ Function Default Visibility | ✓ Complete | ✓ Complete | ✓ **Low / No Risk** |



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# Contract Ownership

The contract ownership of Lambo Doge Token is not currently renounced. The ownership of the contract grants special powers to the protocol creators, making them the sole addresses that can call sensible ownable functions that may alter the state of the protocol.
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01

The current owner is the address 0x87406a212c8efad0fe7ddc58400e528b29b72c14 which can be viewed from: HERE

02

The owner wallet has the power to call the functions displayed on the priviliged functions chart below, if the owner wallet is compromised this privileges could be exploited.

03

We recommend the team to renounce ownership at the right timing if possible, or gradually migrate to a timelock with governing functionalities in respect of transparency and safety considerations.

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# Important Notes To The Users:

01 Returns the remaining number of tokens that `spender` will be allowed to spend on behalf of `owner` through {transferFrom}. This is zero by default.

02 Sets `amount` as the allowance of `spender` over the caller's tokens.

Returns a boolean value indicating whether the operation succeeded.

03 Beware that changing an allowance with this method brings the risk that someone may use both the old and the new allowance by unfortunate transaction ordering. One possible solution to mitigate this race condition is to first reduce the spender's allowance to 0 and set the desired value afterwards

04 Emitted when the allowance of a `spender` for an `owner` is set by a call to {approve}. `value` is the new allowance. / event Approval(address indexed owner, address indexed spender, uint256 value)

05 Returns the addition of two unsigned integers, reverting on overflow. Counterpart to Solidity's `+` operator

06 Transfers ownership of the contract to a new account (`newOwner`). Can only be called by the current owner.

07 Returns the subtraction of two unsigned integers, reverting on overflow (when the result is negative). Counterpart to Solidity's `-` operator.

08 public marketingFee = 4;

public devFee = 4;

09 Gas optimization: this is cheaper than requiring 'a' not being zero, but the benefit is lost if 'b' is also tested.

10 Returns the integer division of two unsigned integers. Reverts on division by zero. The result is rounded towards zero.

11 Counterpart to Solidity's `/` operator. Note: this function uses a `revert` opcode (which leaves remaining gas untouched) while Solidity uses an invalid opcode to revert (consuming all remaining gas).

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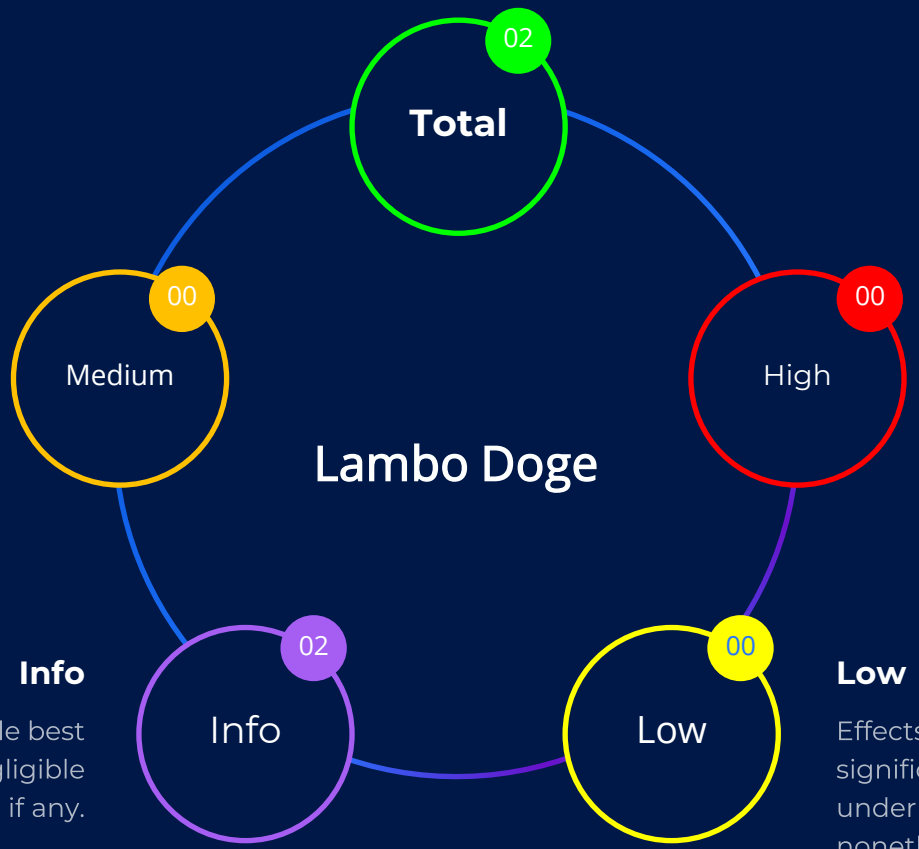
# Technical Findings Summary

## Classification of Issues

**Total**

What you should pay attention to




**Medium**

Bugs or issues with that may be subject to exploit, though their impact is somewhat limited. Issues under this classification are recommended to be fixed as soon as possible.

**High**

Exploits, vulnerabilities or errors that will certainly or probabilistically lead towards loss of funds, control, or impairment of the contract and its functions. Issues under this classification are recommended to be fixed with utmost urgency

**Info**

Consistency, syntax or style best practices. Generally pose a negligible level of risk, if any.

**Low**

Effects are minimal in isolation and do not pose a significant danger to the project or its users. Issues under this classification are recommended to be fixed nonetheless.

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# Findings

## Public function that could be declared external

| ID | Severity | Contract | Function |
|---|---|---|---|
| 01 | Informational | Lambo Doge | Functions: size, getKeyAtIndex, getIndexOfKey |

### Description

Gas Optimization. Public function that could be declared external

### Recommendation

Public functions that are never called by the contract should be declared external to save gas.

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# Findings

## Missing events arithmetic

| ID | Severity | Contract | Function |
|---|---|---|---|
| 02 | Informational | Lambo Doge | Missing events for setWalletBalance, setMaxBuyTransaction, setMaxSellTransaction, setSwapTokensAtAmount, setSellTransactionMultiplier |

### Description

Functions that change critical arithmetic parameters should emit an event.

### Recommendation

Emit corresponding events for critical parameter changes.

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# Priviliged Functions (onlyOwner & Others)

| Function Name | Parameters | Visibility |
|---|---|---|
| ✓ renounceOwnership | ▪ none | ▪ **external** |
| ✓ transferOwnership | ▪ address newOwner | ▪ **public** |
| ✓ prepareForPartherOrExchang eListing | ▪ address_partnerOrExchangeAddress | ▪ **external** |
| ✓ setWalletBalance | ▪ uint256 _maxWalletBalance | ▪ **external** |
| ✓ setMaxBuyTransaction | ▪ uint256 _maxTxn | ▪ **external** |
| ✓ setMaxSellTransaction | ▪ uint256 _maxTxn | ▪ **external** |
| ✓ updateBusdDividendToken | ▪ address _newContract | ▪ **external** |
| ✓ updateMarketingWallet | ▪ address _newWallet | ▪ **external** |
| ✓ setSwapTokensAtAmount | ▪ uint256 _swapAmount | ▪ **external** |
| ✓ setSellTransactionMultiplier | ▪ uint256 _multiplier | ▪ **external** |
| ✓ setTradingIsEnabled | ▪ none | ▪ **external** |
| ✓ setBusdDividendEnabled | ▪ bool _enabled | ▪ **external** |
| ✓ setMarketingEnabled | ▪ bool _enabled | ▪ **external** |
| ✓ setSwapAndLiquifyEnabled | ▪ bool _enabled | ▪ **external** |
| ✓ updatebusdDividendTracker | ▪ address newAddress | ▪ **external** |
| ✓ updateUniswapV2Router | ▪ address newAddress | ▪ **external** |

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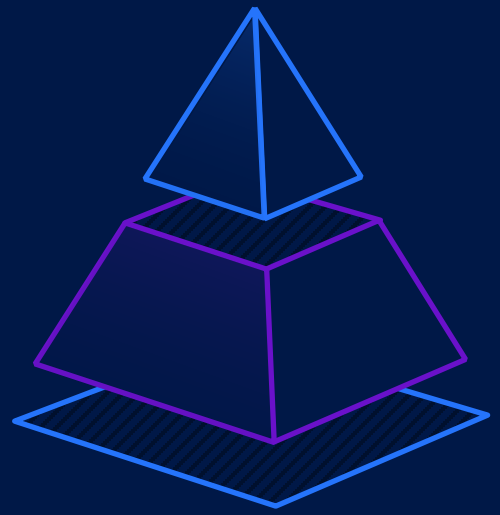
# Priviliged Functions (onlyOwner & Others)

| Function Name | Parameters | Visibility |
|---|---|---|
| ✓ excludeFromFees | ▪ address account, bool excluded | ▪ **public** |
| ✓ excludeFromDividend | ▪ address account | ▪ **public** |
| ✓ setAutomatedMarketMakerP air | ▪ address pair, bool value | ▪ **external** |
| ✓ updateGasForProcessing | ▪ uint256 newValue | ▪ **external** |
| ✓ updateMinimumBalanceForDi vidends | ▪ uint256 newMinimumBalance | ▪ **external** |
| ✓ updateClaimWait | ▪ uint256 claimWait | ▪ **external** |
| ✓ processDividendTracker | ▪ uint256 gas | ▪ **external** |



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# Statistics

## Liquidity Info

| Parameter | Result |
| --- | --- |
| Pair Address | 0x0d993c128e5ea9bbabd0d1cbd6c3e45c4b973291 |
| LAD Reserves | 0 LAD |
| Reserves, wDoge | 0 wDoge |
| Liquidity Value | $ 0 |

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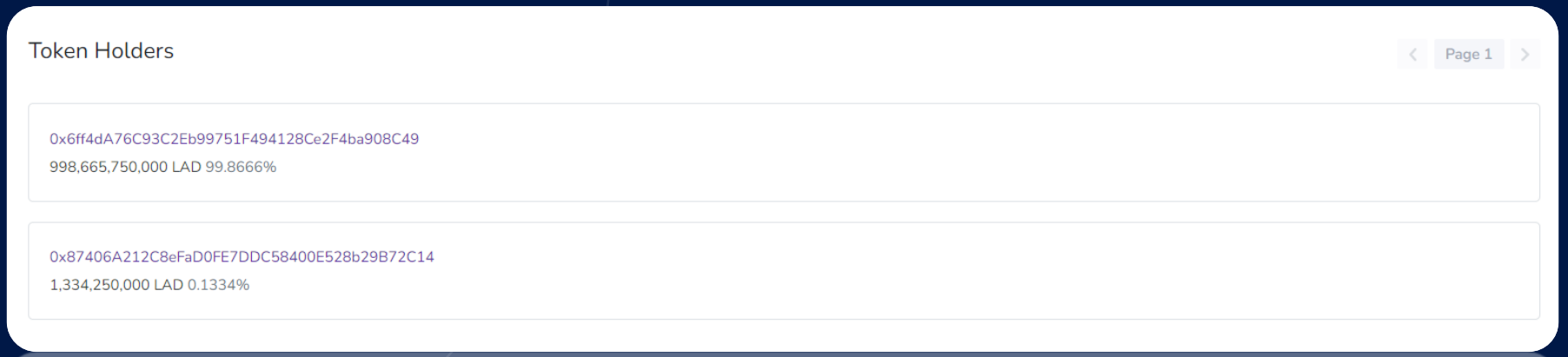
# Statistics

## Token (LAD) Holders Info

| Parameter | Result |
|---|---|
| LAD Percentage Burnt | 0 % |
| LAD Amount Burnt | 0 LAD |
| Top 10 Percentage Own | 100 % |
| Top 10 Amount Owned | 1,000,000,000,000 LAD |



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