

TechRate
December, 2022



SMART CONTRACTS SECURITY AUDIT REPORT



Techrate_audits



Techrate



Techrate1

Audit Details



Audited project

MetalMineCoin



Deployer address

0x6ededc6721e6a3b1277d18c35ea79310dc081172



Client contacts:

MetalMineCoin team



Blockchain

Binance Smart Chain



Project website:

<https://metalminecoin.com>

Disclaimer

This is a limited report on our findings based on our analysis, in accordance with good industry practice as at the date of this report, in relation to cybersecurity vulnerabilities and issues in the framework and algorithms based on smart contracts, the details of which are set out in this report. In order to get a full view of our analysis, it is crucial for you to read the full report. While we have done our best in conducting our analysis and producing this report, it is important to note that you should not rely on this report and cannot claim against us on the basis of what it says or doesn't say, or how we produced it, and it is important for you to conduct your own independent investigations before making any decisions. We go into more detail on this in the disclaimer below – please make sure to read it in full.

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The analysis of the security is purely based on the smart contracts alone. No applications or operations were reviewed for security. No product code has been reviewed.

Background

TechRate was commissioned by MetalMineCoin to perform an audit of smart contracts:

<https://bscscan.com/address/0x6859029F0686A813233c3881A88CA2f98fB9E143#code>

The purpose of the audit was to achieve the following:

- Ensure that the smart contract functions as intended.
- Identify potential security issues with the smart contract.

The information in this report should be used to understand the risk exposure of the smart contract, and as a guide to improve the security posture of the smart contract by remediating the issues that were identified.

Contracts Details

Token contract details for 19.12.2022

Contract name MetalMineCoin

Contract address 0x6859029F0686A813233c3881A88CA2f98fB9E143

Total supply 200,000,000

Token ticker MMC

Decimals 18

Token holders 15

Transactions count 24

Top 100 holders dominance 100.00%

Contract deployer address 0x6ededc6721e6a3b1277d18c35ea79310dc081172

Owner address 0x6ededc6721e6a3b1277d18c35ea79310dc081172

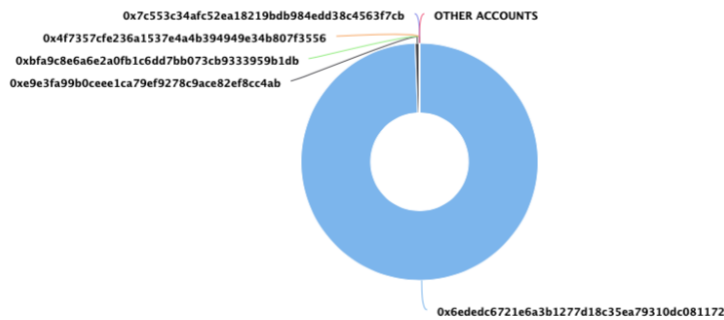
MetalMineCoin Token Distribution

The top 100 holders collectively own 100.00% (200,000,000.00 Tokens) of MetalMineCoin

Token Total Supply: 200,000,000.00 Token | Total Token Holders: 15

MetalMineCoin Top 100 Token Holders

Source: BscScan.com



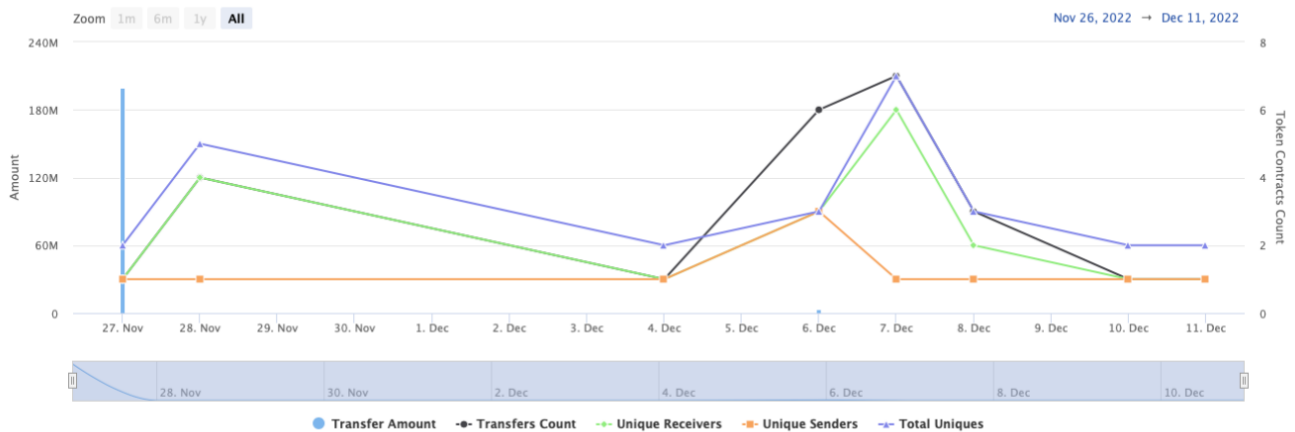
(A total of 200,000,000.00 tokens held by the top 100 accounts from the total supply of 200,000,000.00 token)

MetalMineCoin Contract Interaction Details

Time Series: Token Contract Overview

Sun 27, Nov 2022 - Sun 11, Dec 2022

Token Contract 0x6859029F0686A813233c3881A88CA2f98f89E143 (MetalMineCoin)
Source: BscScan.com



MetalMineCoin Top 10 Token Holders

Rank	Address	Quantity (Token)	Percentage
1	0x6edcdc6721e6a3b1277d18c35ea79310dc081172	198,851,164	99.4256%
2	0xe9e3fa99b0ceee1ca79ef9278c9ace82ef8cc4ab	1,094,670	0.5473%
3	0xbfa9c8e6a6e2a0fb1c6dd7bb073cb9333959b1db	35,520	0.0178%
4	0x4f7357cfe236a1537e4a4b394949e34b807f3556	10,600	0.0053%
5	0x7c553c34afc52ea18219bdb984edd38c4563f7cb	1,100	0.0006%
6	0x2d8cf5f3513313b6c72aaeadd77f299cfe92ecdc	1,000	0.0005%
7	0x3f2870979b8f0432005a92445a9aef5b351a66c0	972	0.0005%
8	0xf0aa18b86bcc2e6dbb40c3f97d49d8dd239f7f15	972	0.0005%
9	0x7adc7bbc75a36e7fd0b4a7ddab4ca28273d99c65	972	0.0005%
10	0xe0445ff530bb7382bf737013b4dad86aa0c018cd	900	0.0005%

Contract functions details

- + [Int] IERC20
 - [Ext] totalSupply
 - [Ext] balanceOf
 - [Ext] transfer #
 - [Ext] allowance
 - [Ext] approve #
 - [Ext] transferFrom #
- + [Int] IERC20Metadata (IERC20)
 - [Ext] name
 - [Ext] symbol
 - [Ext] decimals
- + Context
 - [Int] _msgSender
 - [Int] _msgData
- + ERC20 (Context, IERC20, IERC20Metadata)
 - [Pub] <Constructor> #
 - [Pub] name
 - [Pub] symbol
 - [Pub] decimals
 - [Pub] totalSupply
 - [Pub] balanceOf
 - [Pub] transfer #
 - [Pub] allowance
 - [Pub] approve #
 - [Pub] transferFrom #
 - [Pub] increaseAllowance #
 - [Pub] decreaseAllowance #
 - [Int] _transfer #
 - [Int] _mint #
 - [Int] _burn #
 - [Int] _approve #
 - [Int] _spendAllowance #
 - [Int] _beforeTokenTransfer #
 - [Int] _afterTokenTransfer #
- + Ownable (Context)
 - [Pub] <Constructor> #
 - [Pub] owner

- [Int] _checkOwner
 - [Pub] renounceOwnership #
 - modifiers: onlyOwner
 - [Pub] transferOwnership #
 - modifiers: onlyOwner
 - [Int] _transferOwnership #
- + MetalMineCoin (ERC20, Ownable)
- [Pub] <Constructor> #
 - modifiers: ERC20
 - [Pub] pause_ #
 - modifiers: onlyOwner
 - [Pub] unpause_ #
 - modifiers: onlyOwner
 - [Pub] addWhiteList #
 - modifiers: onlyOwner
 - [Pub] removeWhiteList #
 - modifiers: onlyOwner
 - [Int] _transfer #

(\$) = payable function

= non-constant function

Issues Checking Status

Issue description	Checking status
1. Compiler errors.	Passed
2. Race conditions and Reentrancy. Cross-function race conditions.	Passed
3. Possible delays in data delivery.	Passed
4. Oracle calls.	Passed
5. Front running.	Passed
6. Timestamp dependence.	Passed
7. Integer Overflow and Underflow.	Passed
8. DoS with Revert.	Passed
9. DoS with block gas limit.	Passed
10. Methods execution permissions.	Passed
11. Economy model of the contract.	Passed
12. The impact of the exchange rate on the logic.	Passed
13. Private user data leaks.	Passed
14. Malicious Event log.	Passed
15. Scoping and Declarations.	Passed
16. Uninitialized storage pointers.	Passed
17. Arithmetic accuracy.	Passed
18. Design Logic.	Passed
19. Cross-function race conditions.	Passed
20. Safe Open Zeppelin contracts implementation and usage.	Passed
21. Fallback function security.	Passed

Security Issues

✓ High Severity Issues

No high severity issues found.

✓ Medium Severity Issues

No medium severity issues found.

✓ Low Severity Issues










No Low severity issues found.

Owner privileges (In the period when the owner is not renounced)



- Owner can pause/unpause the contract.
- Owner can whitelist addresses (can transfer when paused).

Testnet deployment

Contracts Description Table

Contract	Type	Bases	Mutability	Modifiers
L	Function Name	Visibility		
ERC20	Implementation	Context, IERC20, IERC20Metadata		
L	transfer	Public !		NO !
L	approve	Public !		NO !
L	transferFrom	Public !		NO !
L	increaseAllowance	Public !		NO !
L	decreaseAllowance	Public !		NO !
MetalMineCoin	Implementation	ERC20, Ownable		
L	pause	Public !		onlyOwner
L	unpause	Public !		onlyOwner
L	addWhiteList	Public !		onlyOwner
L	removeWhiteList	Public !		onlyOwner

Legend

Symbol	Meaning
	Function can modify state
	Function is payable

Conclusion

Smart contracts do not contain high severity issues! Liquidity pair contract's security is not checked due to out of scope. The further transfers and operations with the funds raise are not related to this particular contract.

Liquidity locking details are NOT provided by the team.

Security score: 92.

TechRate note:

Please check the disclaimer above and note, the audit makes no statements or warranties on business model, investment attractiveness or code sustainability. The report is provided for the only contract mentioned in the report and does not include any other potential contracts deployed by Owner.