



RugFreeCoins Audit



Mooney Token Audit

Smart Contract Security Audit

August 22, 2021

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Audit details



Audited project

Mooney Token



Contract Address

0x80ba768f7e1bfbe659d8c3c96d44126b22a853df



Client contact

Mooney Team



Blockchain

Ethereum smart chain



Project website

<https://www.mooney.cc/>

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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Background

Rugfreecoins was commissioned by Mooney Token to perform an audit of the smart contract.

<https://etherscan.io/token/0x80ba768f7e1bfbe659d8c3c96d44126b22a853df>

The focus of this audit is to verify that the smart contract is secure, resilient and working according to the specifications.

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

About the project

Mooney is a digital currency that is based on Ethereum smart contract which embodies the values, characteristics, and structure of Bitcoin, XRP, Ethereum, HBAR, and other related Blockchains. The totality of its features allows Mooney to be an exponential store of value.

Mooney aims to push the principles and techniques related to blockchain decentralization further. Mooney leverages compatible technologies to welcome new and existing cryptocurrency miners to the Mooney Community. This community provides a stable path for miners to monetize computing & energy resources through proportional rewards in Mooney Coin all the while increasing the collective hash power and value of each Mooney Token.

Mooney will aim to grow past only having a digital footprint. Mooney will also build formal decentralized control through non-profit business structures that will play significant roles in pushing Mooney's growth and preserving the community's integrity, missions, and vision.

Each non-profit entity will have a signature in a multi-signature wallet, and the actions taken by the non-profits will be a direct result of the votes by Mooney Coin Token holders. These efforts will push decentralization to new limits and put ownership in its holders' control.

The current deficiencies in the cryptocurrency space created an opportunity to develop a new ecosystem and community. Mooney is the resulting system, designed to support computing-intensive blockchains while emphasizing a greener and further decentralized mining environment.

Mooney provides a chance for the world to take ownership by driving the direction of blockchain technology through decentralized governance. This paper explains the constructs of an ERC-20 smart contract and its decentralized and distributed physical infrastructure, Mooney (MOO), on the Ethereum blockchain.

Tokenomics

- ❖ No Tax to Buy or Sell Tokens (only transaction fee charged by exchange).

Roadmap

2021 - Genesis

- ❖ Mooney Coin ERC20 Contract Launched
- ❖ Website Launched
- ❖ Stood up Mining Nodes on Common Pools
- ❖ System to Capture & View Miner Stats
- ❖ Submit Whitepaper with Etherscan Package
- ❖ First Buyback Occurs
- ❖ Mooney Day Redistribution
- ❖ Smart Contract Audit



2022 Community and mining

- ❖ First Mooney Cycle Ends March
- ❖ Implement Volume bots
- ❖ Develop Crypto-Education & Help Portal
- ❖ Set up first Community Nonprofit Organization
- ❖ 100 Mining Node Goal by end of 2022
- ❖ Second Mooney Cycle Ends December
- ❖ Develop System to Track & Receive Rewards
- ❖ Develop Voting Mechanism



2023 Governance and education

- ❖ Release DApps to Proliferate Governance
- ❖ Expand Education and Non-Profit Affiliations
- ❖ Petahash Mining Rate
- ❖ Third Mooney Cycle Completes September



2024 Expand green mining operations

- ❖ Buy Land & Setup First Green Mining Facility
- ❖ Fourth Mooney Cycle Completes June



Target market and the concept

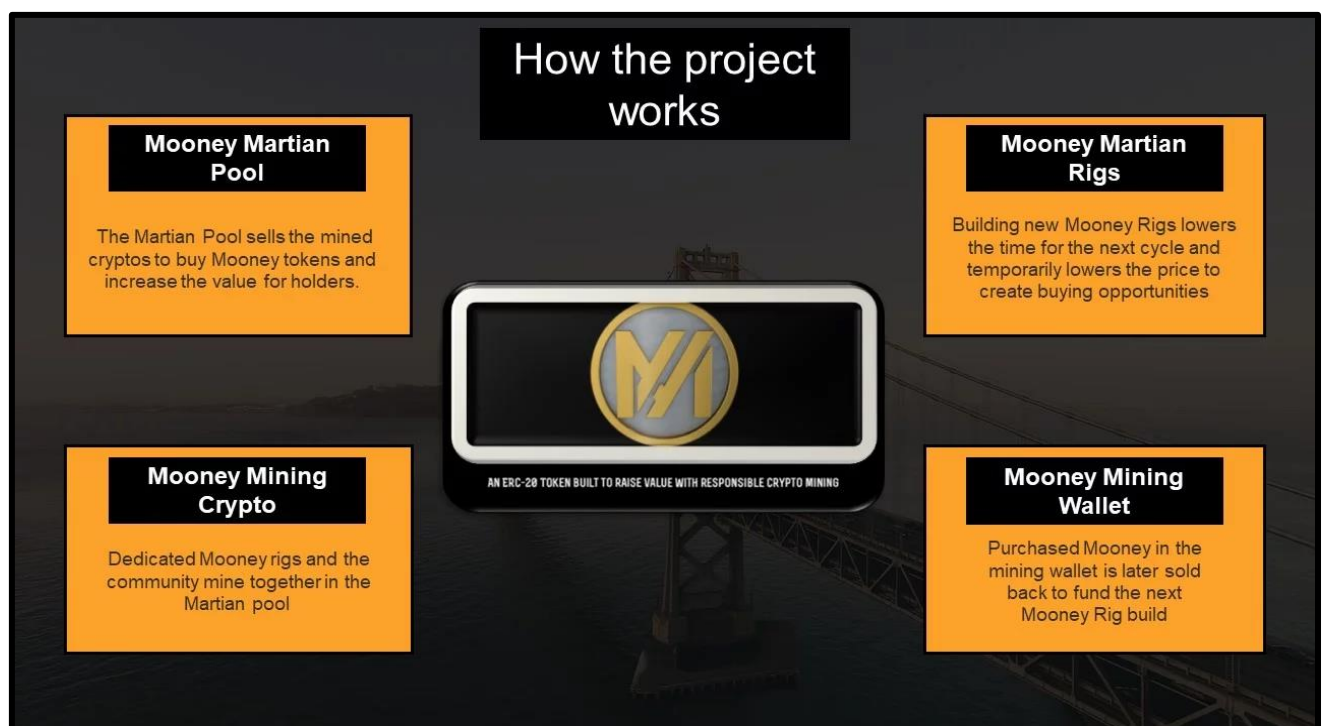
Target market

- ❖ Anyone who's interested in Crypto space with long term investment plans.
- ❖ Anyone who's interested in getting educated in regard to the mining
- ❖ Any active miners or anyone who's interested in mining to join the Mooney community Martian pool and receive Mooney tokens as rewards.
- ❖ Anyone who's ready to earn a passive income in Mooney by holding tokens.
- ❖ Anyone who's interested in trading tokens.
- ❖ Anyone who's interested in stake Mooney tokens and earn rewards.
- ❖ Anyone who's interested in holding tokens and having governance and voting capabilities.
- ❖ Anyone who's interested in taking part with the future plans of the Mooney token.
- ❖ Anyone who's interested in making financial transactions with any other party using Mooney as the currency.

Core concept

Mooney coin is an ERC20 token minted on the Ethereum blockchain, which combines the mining rewards from multiple cryptocurrencies using personal computers and dedicated mining rigs in the community. The mining rewards are used to buy Mooney coin, which increases the value for holders and increases rewards for miners.

Mooney Coin aims to stand up Mining Nodes controlled by the Mooney Network to collaborate with holders and expand mining operations.



Mooney will educate and empower the community to set up and make available their computing & energy resources. The Mooney Network will make available the educational resources for the prospective miners to connect to networks and monetize their computing hardware and available energy.

Mooney will push for its holders to use their computing resources to contribute to the total power of the network. Mooney Coin builds value by extracting the rewards from mining operations that need vast amounts of computation and energy (i.e., blockchains & AI).

As per the contribution, Mooney will build its portfolio value and/or exchange that value as liquidity for the Mooney Coin. Miners who point resources to Mooney Wallets will receive equivalent value in Mooney Coin. Mooney will also airdrop Tokens to Mooney long-term holders (minimum one cycle). After holding for one cycle, rewards are earned routinely from the release of tokens. A percentage of the routine release will go back to the holders, who will get airdrops based on percentages of Mooney holdings reflected by the ledger.

Creation Unit & Greener Efforts

Once Mooney Coin is of significant value and volume, the creation unit will be responsible for building out Computing and Energy factories and listing Mooney Coin on reputable exchanges and wallets. Mooney Computing and Energy Factories will be possible once liquidity provides an excellent opportunity for the network and its holders.

The creation unit has been allotted 2 million Tokens from genesis. The Creation Unit will be responsible for growing the mining network owned by the holders of Mooney Coin. The creation unit will also be responsible for executing day-to-day activities and vetting team members that run and facilitate the growth of the Network, to include Lawyers, Lobbyists, Engineers & Scientists (Civil, Electrical, Thermal, Mechanical, Data, Business, Cryptographer, Geographer, Meteorologist, Physicist, Agronomist, or Etc...)

The Mooney Network will create a growing number of jobs and opportunities for the regions where Mooney decides to stand up computing power mining factories.

Rewards

The rewards from the mining operations will be rewarded via airdrop to a decentralized reserve network (yet to be identified) for long-term holders to claim their Tokens. Tokens must be held in a compatible wallet on the Ethereum ledger for at least one Mooney Cycle to earn rewards. The Tokens can then be claimed or marked ready for claim from the Mooney Network.

Unclaimed Rewards will expire after eighteen months (Two cycles.) There will be an Ethereum gas fee tied to retrieving Tokens. Tokens will accumulate if there is activity on the wallet every ten years.

Snapshots of the ledger will be captured throughout the day to aid in computing the daily holding average, which will tally rewards.

Potential to grow with score points

1.	Project efficiency	10/10
2.	Project uniqueness	10/10
3	Information quality	10/10
4	Service quality	9/10
5	System quality	9/10
6	Impact on the community	10/10
7	Impact on the business	10/10
8	Preparing for the future	10/10
Total Points		9.75/10

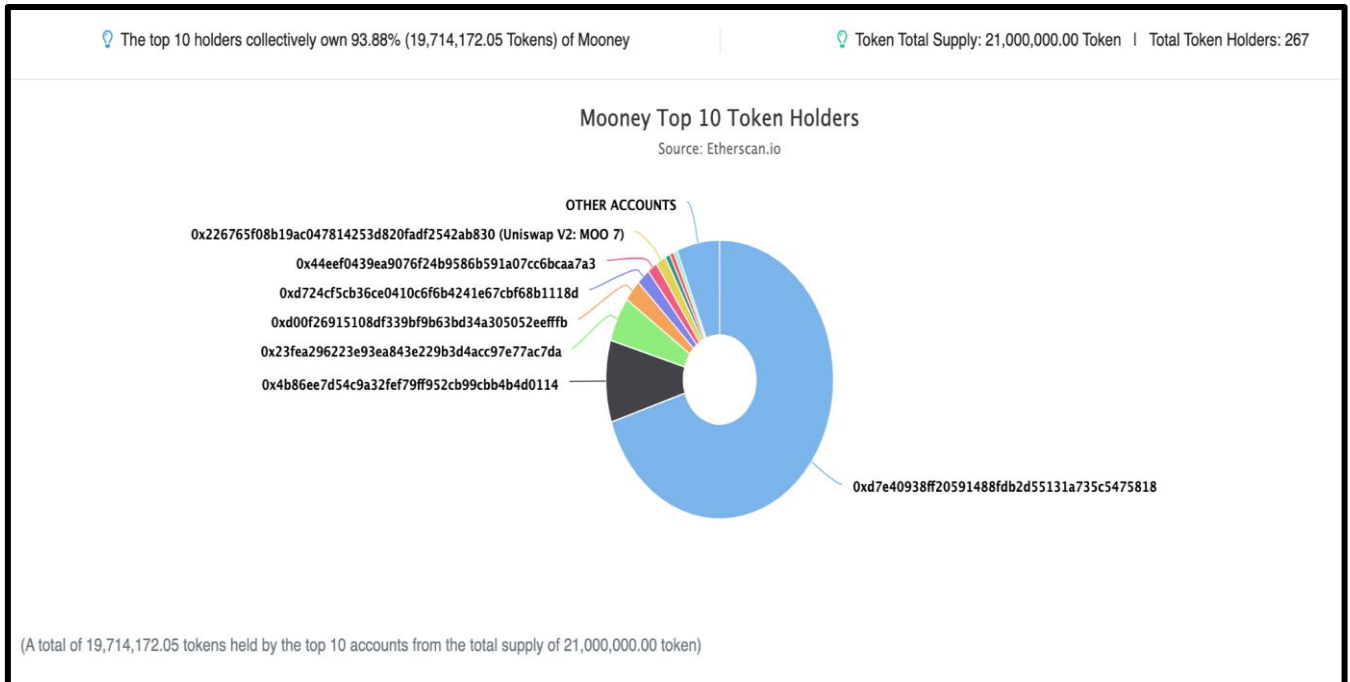
Contract details


Token contract details for 22nd August 2021

Contract name	Mooney
Contract address	0x80ba768f7e1bfbe659d8c3c96d44126b22a853df
Token supply	21,000,000
Token ticker	MOO
Decimals	18
Token holders	267
Transaction count	1,513
Top 100% holders dominance	99.38%
Contract deployer address	0xFfe4CCEb53dcbCfB55573389bD91DC824C19C0a
Contract's current owner address	0xd00f26915108df339bf9b63bd34a305052eefffb

Top token holders

Top 10 Token Holders



Rank	Address	Quantity (Token)	Percentage
1	0xd7e40938ff20591488fdb2d55131a735c5475818	14,715,085	70.0718%
2	0x4b86ee7d54c9a32fef79ff952cb99cbb4b4d0114	1,996,022.72727	9.5049%
3	0x23fea296223e93ea843e229b3d4acc97e77ac7da	1,088,954.6564434080752	5.1855%
4	0xd00f26915108df339bf9b63bd34a305052eeffb	534,267.238943303410012076	2.5441%
5	0xd724cf5cb36ce0410c6f6b4241e67cbf68b1118d	393,873.959411563572370167	1.8756%
6	0x44eef0439ea9076f24b9586b591a07cc6bcaa7a3	303,379.11878919647597123	1.4447%
7	 Uniswap V2: MOO 7	301,363.186848925373024193	1.4351%
8	0x8fd58bc8737d1d773990906b35eb7ca6c95df93	145,566.347390118832395744	0.6932%
9	0xcbdeed7c985e2e4fe5c805a75997320acc13ddf3	131,034.810995072461058918	0.6240%
10	0xce5e0abbed60a345592be9890207fb59684bcd5d	104,625	0.4982%

Token distribution

Tokens are distributed as follows:

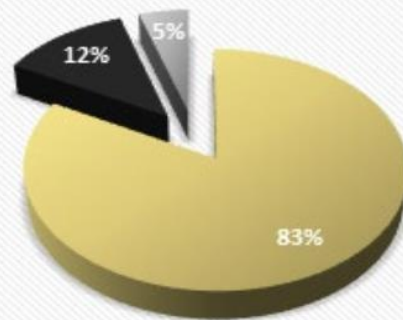
Mooney Genesis : 21 million Tokens Minted on the Ethereum Blockchain.

Tokens available : similar to BTC

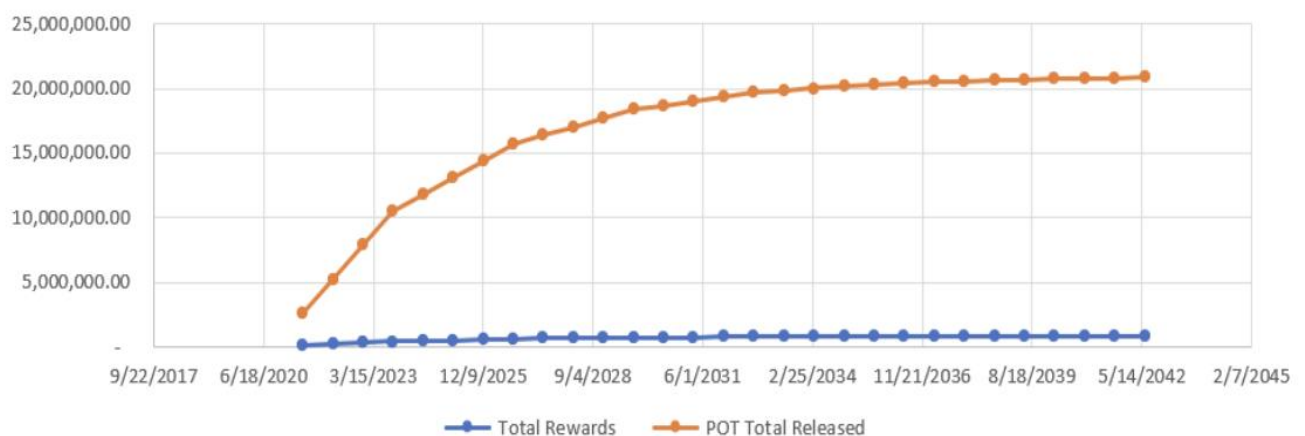
All Tokens minted on day one : similar to XRP

Mooney Token Allocations

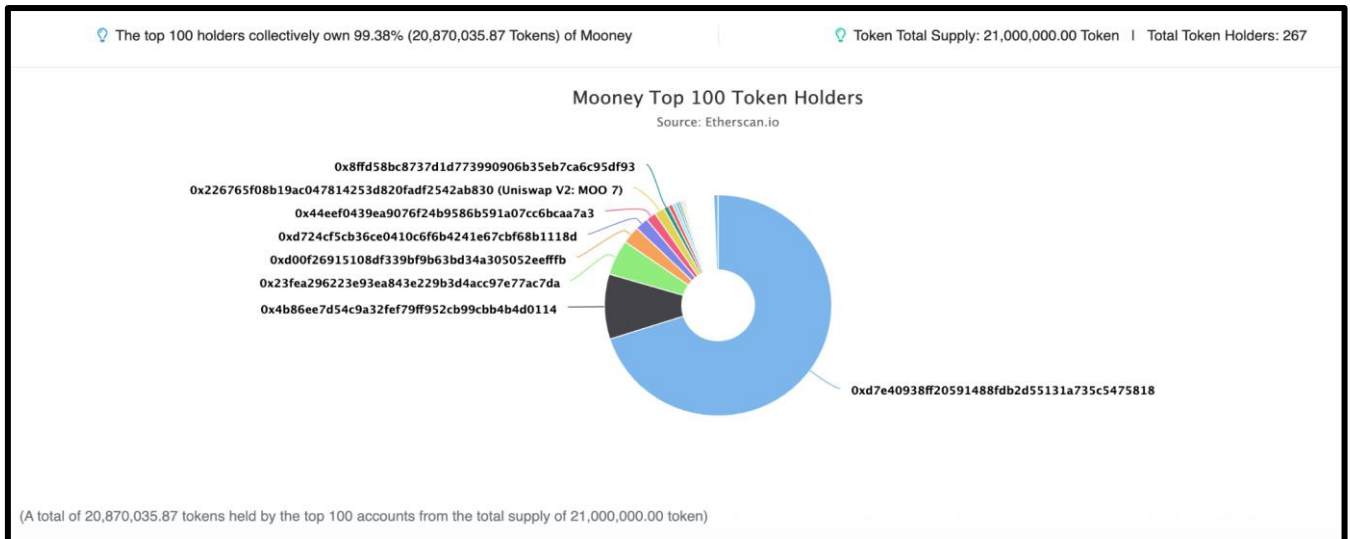
- Release & Reward Tokens
- Development Allotment
- Contract Allotment



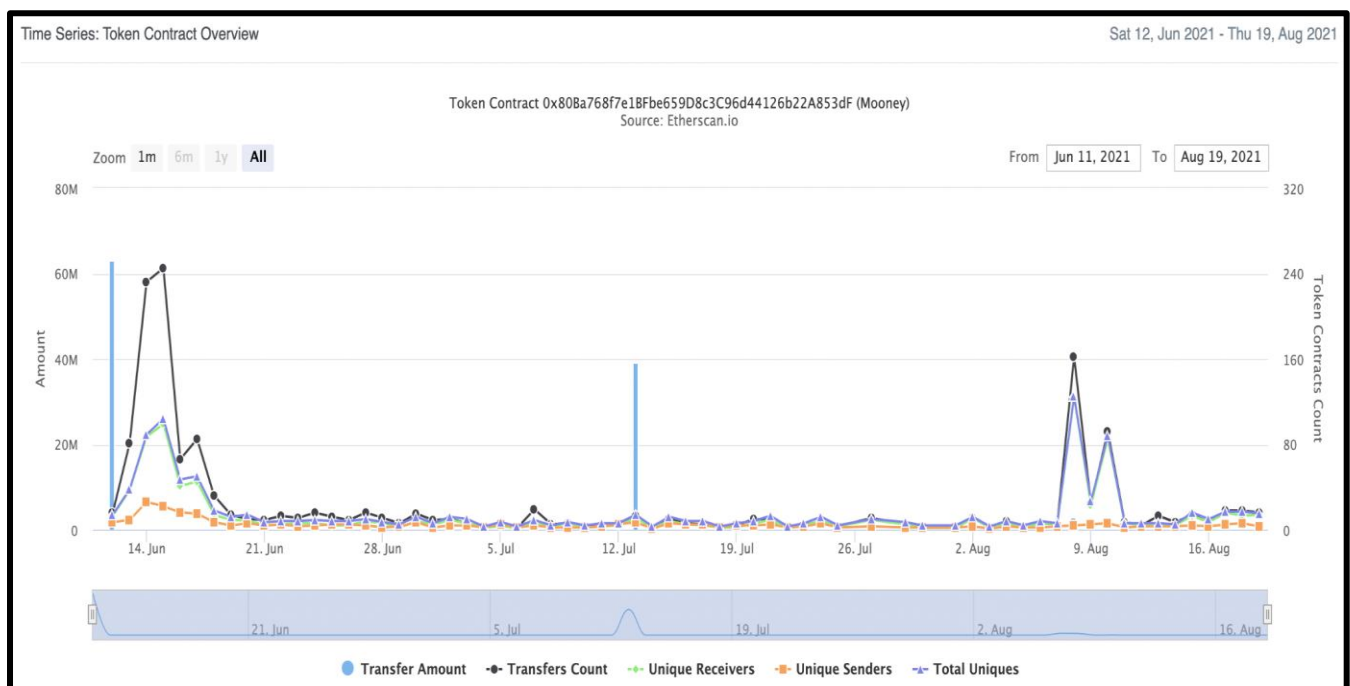
Planned Mooney Supply Release Schedule with Rewards



Top 100 Token Holders



Contract interaction details

















































































Contract code function details

No	Category	Item	Result
1	Coding conventions	BRC20 Token standards	pass
		compile errors	pass
		Compiler version security	pass
		visibility specifiers	pass
		Gas consumption	pass
		SafeMath features	pass
		Fallback usage	pass
		tx.origin usage	pass
		deprecated items	pass
		Redundant code	pass
		Overriding variables	pass
2	Function call audit	Authorization of function call	pass
		Low level function (call/delegate call) security	pass
		Returned value security	pass
		Selfdestruct function security	pass
3	Business security	Access control of owners	pass
		Business logics	pass
		Business implementations	pass
4	Integer overflow/underflow		pass
5	Reentrancy		pass
6	Exceptional reachable state		pass
7	Transaction ordering dependence		pass
8	Block properties dependence		pass
9	Pseudo random number generator (PRNG)		pass
10	DoS (Denial of Service)		pass
11	Token vesting implementation		pass
12	Fake deposit		pass
13	Event security		pass

Contract description table

Below table represents the summary of the contracts and methods in the token contract. We scanned the whole contract and listed down all the Interfaces, functions and implementations with its visibility and mutability.

Contract	Type	Bases		
L	Function Name	Visibility	Mutability	Modifiers
Context	Implementation			
L	_msgSender	Internal 		
L	_msgData	Internal 		
IERC20	Interface			
L	totalSupply	External 		NO 
L	balanceOf	External 		NO 
L	transfer	External 		NO 
L	allowance	External 		NO 
L	approve	External 		NO 
L	transferFrom	External 		NO 
SafeMath	Library			
L	add	Internal 		
L	sub	Internal 		
L	sub	Internal 		
L	mul	Internal 		
L	div	Internal 		
L	div	Internal 		
L	mod	Internal 		
L	mod	Internal 		

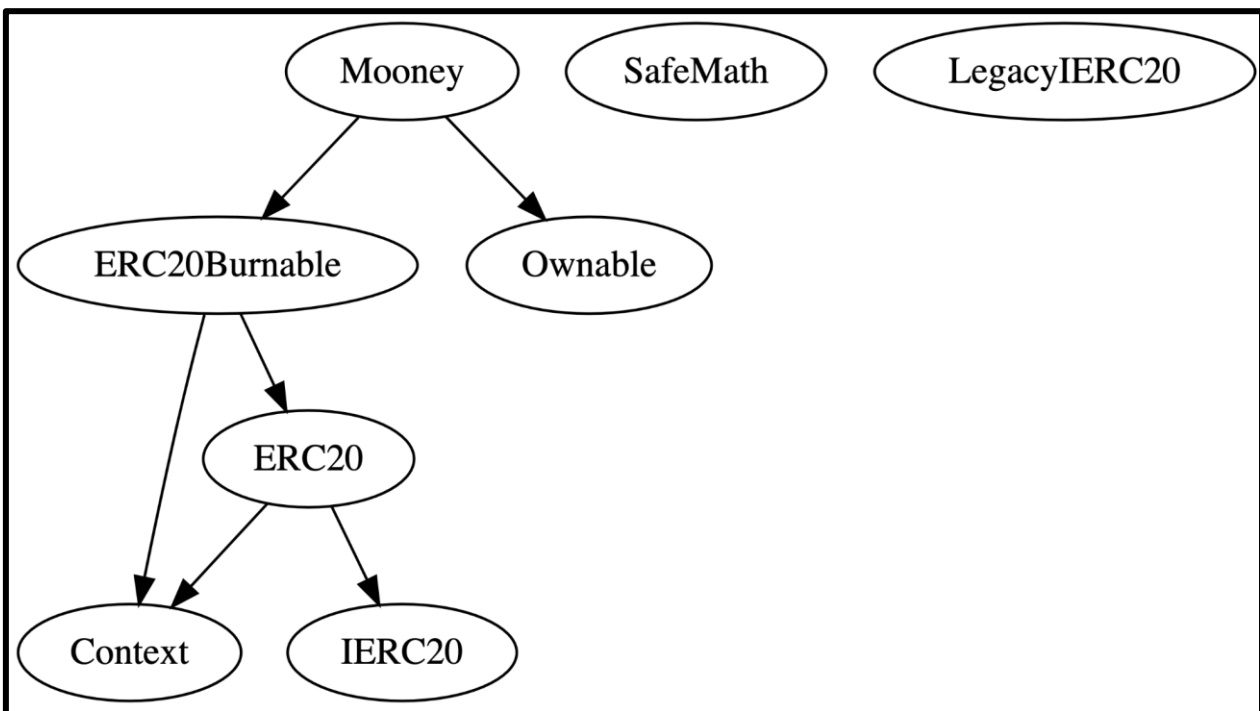
ERC20	Implementation	Context, IERC20		
L		Public 		NO 
L	name	Public 		NO 
L	symbol	Public 		NO 
L	decimals	Public 		NO 
L	totalSupply	Public 		NO 
L	balanceOf	Public 		NO 
L	transfer	Public 		NO 
L	allowance	Public 		NO 
L	approve	Public 		NO 
L	transferFrom	Public 		NO 
L	increaseAllowance	Public 		NO 
L	decreaseAllowance	Public 		NO 
L	_transfer	Internal 		
L	_mint	Internal 		
L	_burn	Internal 		
L	_approve	Internal 		
L	_setupDecimals	Internal 		
L	_beforeTokenTransfer	Internal 		
ERC20Burnable	Implementation	Context, ERC20		
L	burn	Public 		NO 
L	burnFrom	Public 		NO 
Ownable	Implementation			
L		Public 		NO 
L	transferOwnership	Public 		onlyOwner

LegacyIERC20	Interface			
L	transfer	External ¶	⬢	NO ¶
Mooney	Implementation	ERC20Burnable , Ownable		
L		Public ¶	⬢	ERC20
L	transferAnyERC20Token	External ¶	⬢	onlyOwner
L	transferAnyLegacyERC20Token	External ¶	⬢	onlyOwner

Legend

Symbol	Meaning
⬢	Function can modify state
⬢	Function is payable

Inheritance Hierarchy



Security issue checking status

- ❖ **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

- ❖ The owner can transfer the ownership.

```
/**
 * @dev Allows the current owner to transfer control of the contract to a newOwner.
 * @param newOwner The address to transfer ownership to.
 */
ftrace | funcSig
function transferOwnership(address newOwner↑) public onlyOwner {
    require(newOwner↑ != address(0));
    emit OwnershipTransferred(owner, newOwner↑);
    owner = newOwner↑;
}
```

- ❖ The owner can transfer any ERC20 tokens to any wallet.

```
ftrace | funcSig
function transferAnyERC20Token(
    address tokenAddress↑,
    address recipient↑,
    uint256 amount↑
) external onlyOwner {
    require(
        IERC20(tokenAddress↑).transfer(recipient↑, amount↑),
        "transfer failed!"
    );
}
```


Audit conclusion

While conducting the audit of the Mooney token smart contract, it was observed that there is nothing alarming with the code.