



Building the Futuristic **Blockchain Ecosystem**

# SECURITY AUDIT REPORT

ReBaseChain

# TOKEN OVERVIEW

## Risk Findings

Severity	Found
● High	1
● Medium	0
● Low	0
● Informational	0

## Centralization Risks

Owner Privileges	Description
● Can Owner Set Taxes >25% ?	Not Detected
● Owner needs to enable trading ?	Yes, owner needs to enable trades
● Can Owner Disable Trades ?	Not Detected
● Can Owner Mint ?	Not Detected
● Can Owner Blacklist ?	Not Detected
● Can Owner set Max Wallet amount ?	Not Detected
● Can Owner Set Max TX amount ?	Not Detected

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# OVERVIEW

The Expelee team has performed a line-by-line manual analysis and automated review of the smart contract. The smart contract was analysed mainly for common smart contract vulnerabilities, exploits, and manipulation hacks. According to the smart contract audit:

<b>Audit Result</b>	<b>Passed With High Risk</b>
<b>KYC Verification</b>	-
<b>Audit Date</b>	<b>11 Aug 2023</b>

# CONTRACT DETAILS

Token Name: ReBaseChain

Symbol: Base

Network: Binance Smart Chain

Language: Solidity

Contract Address:

0xc2FD585D2e6A33fe48A0fFc65072216B0E3B2E07

Total Supply: 1,000,000,000

Owner's Wallet:

0xA8306032b98C2ff9DAB8ed5D620595fFBf984D43

Deployer's Wallet:

0xA8306032b98C2ff9DAB8ed5D620595fFBf984D43

Testnet.

<https://goerli.etherscan.io/token/0x3345C8Aae9d76695149951abb446b424e5D4c13E>

# AUDIT METHODOLOGY

## Audit Details

Our comprehensive audit report provides a full overview of the audited system's architecture, smart contract codebase, and details on any vulnerabilities found within the system.

## Audit Goals

The audit goal is to ensure that the project is built to protect investors and users, preventing potentially catastrophic vulnerabilities after launch, that lead to scams and rugpulls.

## Code Quality

Our analysis includes both automatic tests and manual code analysis for the following aspects:

- Exploits
- Back-doors
- Vulnerability
- Accuracy
- Readability

## Tools

- DE
- Open Zeppelin
- Code Analyzer
- Solidity Code
- Compiler
- Hardhat

# VULNERABILITY CHECKS

Design Logic	Passed
Compiler warnings	Passed
Private user data leaks	Passed
Timestamps dependence	Passed
Integer overflow and underflow	Passed
Race conditions & reentrancy. Cross-function race conditions	Passed
Possible delays in data delivery	Passed
Oracle calls	Passed
Front Running	Passed
DoS with Revert	Passed
DoS with block gas limit	Passed
Methods execution permissions	Passed
Economy model	Passed
Impact of the exchange rate on the logic	Passed
Malicious event log	Passed
Scoping and declarations	Passed
Uninitialized storage pointers	Passed
Arithmetic accuracy	Passed
Cross-function race conditions	Passed
Safe Zepplin module	Passed

# RISK CLASSIFICATION

When performing smart contract audits, our specialists look for known vulnerabilities as well as logical and access control issues within the code. The exploitation of these issues by malicious actors may cause serious financial damage to projects that failed to get an audit in time. We categorize these vulnerabilities by the following levels:

## High Risk

Issues on this level are critical to the smart contract's performance/functionality and should be fixed before moving to a live environment.

## Medium Risk

Issues on this level are critical to the smart contract's performance/functionality and should be fixed before moving to a live environment.

## Low Risk

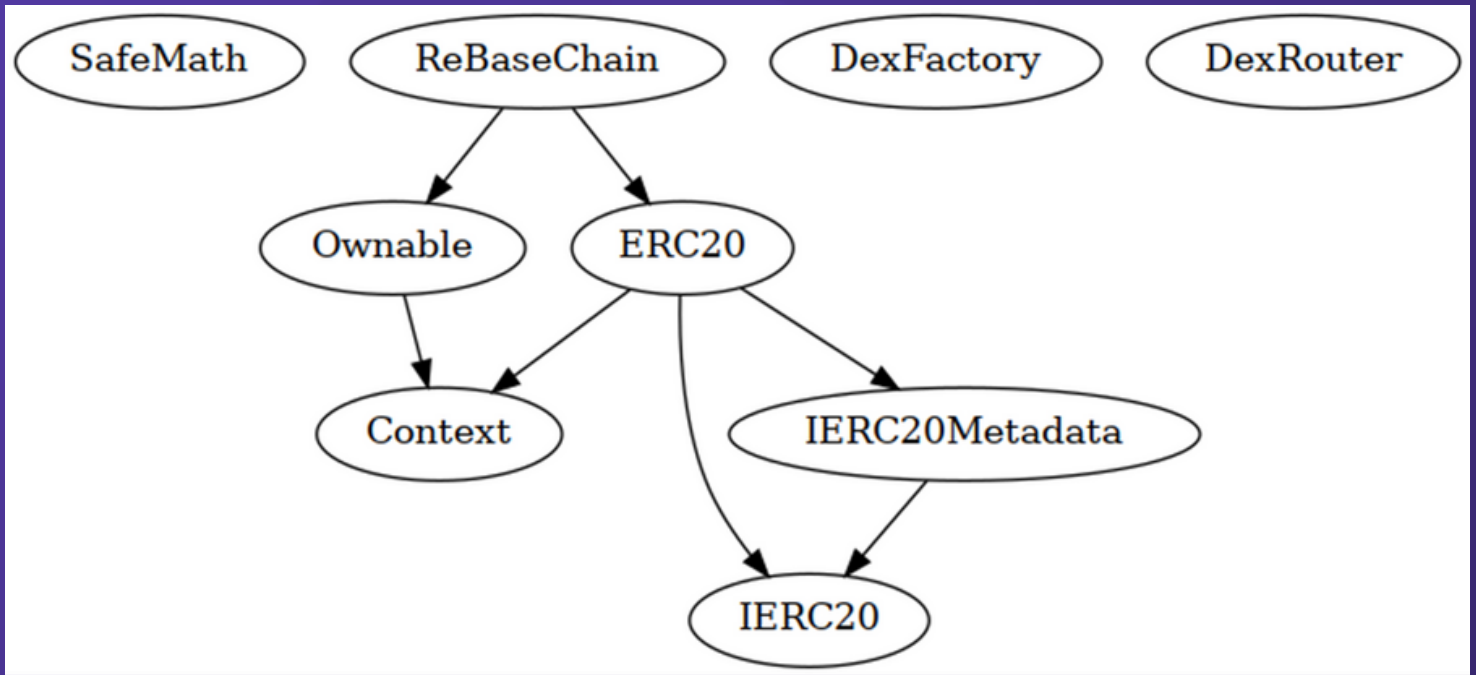
Issues on this level are minor details and warnings that can remain unfixed.

## Informational

Issues on this level are minor details and warnings that can remain unfixed.



# INHERITANCE TREES



# FUNCTION DETAILS

Contract	Type	Bases			
----- ----- ----- ----- -----					
L	<b>**Function Name**</b>	<b>**Visibility**</b>	<b>**Mutability**</b>	<b>**Modifiers**</b>	
<b>**SafeMath**</b>   Library					
L	tryAdd	Internal	🔒		
L	trySub	Internal	🔒		
L	tryMul	Internal	🔒		
L	tryDiv	Internal	🔒		
L	tryMod	Internal	🔒		
L	add	Internal	🔒		
L	sub	Internal	🔒		
L	mul	Internal	🔒		
L	div	Internal	🔒		
L	mod	Internal	🔒		
L	sub	Internal	🔒		
L	div	Internal	🔒		
L	mod	Internal	🔒		
<b>**Context**</b>   Implementation					
L	_msgSender	Internal	🔒		
L	_msgData	Internal	🔒		
<b>**Ownable**</b>   Implementation   Context					
L	<Constructor>	Public	!		●   NO !
L	owner	Public	!		NO !
L	_checkOwner	Internal	🔒		
L	renounceOwnership	Public	!		●   onlyOwner
L	transferOwnership	Public	!		●   onlyOwner
L	_transferOwnership	Internal	🔒		●
<b>**IERC20**</b>   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 !
<b>**IERC20Metadata**</b>   Interface   IERC20					
L	name	External	!		NO !
L	symbol	External	!		NO !
L	decimals	External	!		NO !
<b>**ERC20**</b>   Implementation   Context, IERC20, IERC20Metadata					
L	<Constructor>	Public	!		●   NO !
L	name	Public	!		NO !
L	symbol	Public	!		NO !
L	decimals	Public	!		NO !
L	totalSupply	Public	!		NO !
L	balanceOf	Public	!		NO !

# FUNCTION DETAILS

```

| 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 | _spendAllowance | Internal | 🔒 | ● | |
| L | _beforeTokenTransfer | Internal | 🔒 | ● | |
| L | _afterTokenTransfer | Internal | 🔒 | ● | |
|||||
| **DexFactory** | Interface | |||
| L | createPair | External | ! | ● | NO | ! |
|||||
| **DexRouter** | Interface | |||
| L | factory | External | ! | | NO | ! |
| L | WETH | External | ! | | NO | ! |
| L | addLiquidityETH | External | ! | 💵 | NO | ! |
| L | swapExactTokensForETHSupportingFeeOnTransferTokens | External | ! | ● | NO | ! |
|||||
| **ReBaseChain** | Implementation | ERC20, Ownable |||
| L | <Constructor> | Public | ! | ● | ERC20 |
| L | setmarketingWallet | External | ! | ● | onlyOwner |
| L | enableTrading | External | ! | ● | onlyOwner |
| L | setSwapTokensAtAmount | External | ! | ● | onlyOwner |
| L | toggleSwapping | External | ! | ● | onlyOwner |
| L | setWhitelistStatus | External | ! | ● | onlyOwner |
| L | checkWhitelist | External | ! | | NO | ! |
| L | _takeTax | Internal | 🔒 | ● | |
| L | _transfer | Internal | 🔒 | ● | |
| L | internalSwap | Internal | 🔒 | ● | |
| L | swapToETH | Internal | 🔒 | ● | |
| L | withdrawStuckETH | External | ! | ● | onlyOwner |
| L | withdrawStuckTokens | External | ! | ● | onlyOwner |
| L | <Receive Ether> | External | ! | 💵 | NO | ! |

```

## ### Legend

Symbol	Meaning
:-----: -----	
●	Function can modify state
💵	Function is payable

# TESTNET VERSION

Adding Liquidity 

Tx:

<https://goerli.etherscan.io/tx/0x46d66fd299c5b60ce31eb846bfd95458f1292634c8931c05e22d7ee23bdf9195>

=====

Buying when excluded from fees 

Tx (0% tax):

<https://goerli.etherscan.io/tx/0xc78d95e3bf4dd56b821fc0848a7d81f8d01526e46aa4e2d84508e72be79d4893>

=====

Selling when excluded from fees 

Tx (0% tax):

<https://goerli.etherscan.io/tx/0x922b74d07a51e1c215dc1eeb8088c3286887a464b69c68939694d408c9cdda21>

=====

Transferring when excluded from fees 

Tx (0% tax):

<https://goerli.etherscan.io/tx/0x2d457b7e8be9bb3cda0800d515de98edd3a4efeb96381cf8fdcc9a19986ee8bb>

=====

Buying 

Tx (0-% tax):

<https://goerli.etherscan.io/tx/0x87d977422d49ea3a7aecf102eb927fd046f07cf7c43a8b098098c7044d481222>

# TESTNET VERSION

Selling ✓

Tx (2% tax):

<https://goerli.etherscan.io/tx/0x59a739233de3ad14c2580a96030151f9f9e933e953bfdaa6a839c04f33177c6a>

=====

Transferring ✓

Tx (2% tax):

<https://goerli.etherscan.io/tx/0x45c6f52c4c20b75569fac155862d9f41211db9ff8601de38b2da5b8085107dd4>

=====

Internal swap (ETH sent to marketing wallet) ✓

Tx:

<https://goerli.etherscan.io/address/0xD4C18eb8A6DCDC78153fa721Ff48311D6FDc996D#internaltx>

# MANUAL REVIEW

## Severity Criteria

Expelee assesses the severity of disclosed vulnerabilities according to methodology based on OWASP standards.

Vulnerabilities are divided into three primary risk categories:

High

Medium

Low

High-level considerations for vulnerabilities span the following key areas when conducting assessments:

- Malicious input handling
- Escalation of privileges
- Arithmetic
- Gas use

Overall Risk Severity				
Impact	HIGH	Medium	High	Critical
	MEDIUM	Low	Medium	High
	LOW	Note	Low	Medium
		LOW	MEDIUM	HIGH
	Likelihood			

# HIGH RISK FINDING

## Enabling trades is not guaranteed

Category: **Centralization**

Status: Open

Severity: **High**

### Overview:

Owner must enable trades manually for investors. If trades remain disabled, no one would be able to buy/sell/transfer tokens.

```
function enableTrading() external onlyOwner {  
    require(!tradingEnabled, "Trading is already enabled");  
    tradingEnabled = true;  
    startTradingBlock = block.number;  
}
```

### Suggestion:

To mitigate this issue, its suggested to :

- 1- enable trades before presale
- 2- transfer ownership of the contract to a trusted 3rd party (e.g. pinksale safu developer), this ensures that trades will be enabled at right time
- 3- implement a more decentralized method for enabling trades at right moment, such as using a cooldown.



# ABOUT EXPELEE

Expelee is a product-based aspirational Web3 start-up. Coping up with numerous solutions for blockchain security and constructing a Web3 ecosystem from deal making platform to developer hosting open platform, while also developing our own commercial and sustainable blockchain.

 [www.expelee.com](http://www.expelee.com)

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# expelee

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The logo for Expelee, featuring the word "expelee" in a stylized font. The "ex" is in white, and "pelee" is in orange. The letters are bold and modern.

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