



0x7e62bDBe547883feaBB6299Af5FFf041715e5800





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Global Disclaimer

This document serves as a disclaimer for the crypto smart contract audit conducted by Skeleton Ecosystem. The purpose of the audit was to review the codebase of the smart contracts for potential vulnerabilities and issues. It is important to note the following:

Limited Scope: The audit is based on the code and information available up to the audit completion date. It does not cover external factors, system interactions, or changes made after the audit. The audit itself can not guarantee 100% safaty and can not detect common scam methods like farming and developer sell-out.

No Guarantee of Security: While we have taken reasonable steps to identify vulnerabilities, it is impossible to guarantee the complete absence of security risks or issues. The audit report provides an assessment of the contract's security as of the audit date.

Continued Development: Smart contracts and blockchain technology are evolving fields. Updates, forks, or changes to the contract post-audit may introduce new risks that were not present during the audit.

Third-party Code: If the smart contract relies on third-party libraries or code, those components were not thoroughly audited unless explicitly stated. Security of these dependencies is the responsibility of their respective developers.

Non-Exhaustive Testing: The audit involved automated analysis, manual review, and testing under controlled conditions. It is possible that certain vulnerabilities or issues may not have been identified.

Risk Evaluation: The audit report includes a risk assessment for identified vulnerabilities. It is recommended that the development team carefully reviews and addresses these risks to mitigate potential exploits.

Not Financial Advice: This audit report is not intended as financial or investment advice. Decisions regarding the use, deployment, or investment in the smart contract should be made based on a comprehensive assessment of the associated risks.

By accessing and using this audit report, you acknowledge and agree to the limitations outlined above. Skeleton Ecosystem and its auditors shall not be held liable for any direct or indirect damages resulting from the use of the audit report or the smart contract itself.

Please consult with legal, technical, and financial professionals before making any decisions related to the smart contract.



## Overview

Contract Name	RICHIE RICH
Ticker/Simbol	RICHIE
Blockchain	Binance Smart Chain Bep20
Contract Address	0x7e62bDBe547883feaBB6299Af5FFf041715e5800
Creator Address	0x669ACf46050d40c78946768BBe99bb8A6044d1B6
Current Owner Address	Renounced
Contract Explorer	https://bscscan.com/token/0x7e62bdbe547883feabb62 99af5fff041715e5800
Compiler Version	v0.8.19+commit.7dd6d404
License	None
Optimisation	Yes with 200 Runs
Total Supply	991,644,290.514097 RICHIE
Decimals	9

## Creation/Audit

Contract Deployed	4 Aug 2023
Audit Created	29-Aug-23 20:00:00 UTC
Audit Update	V 0.1

## Verified Socials

Website	https://richierich.vip
Telegram	https://t.me/RichieRichVIP
Twitter (X)	https://twitter.com/RichieRichVIP



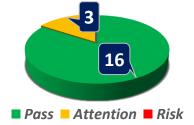
# Contract Function Analysis





Pass Attention Item A Risky Item





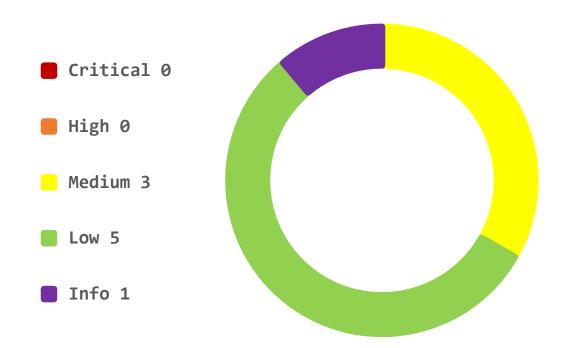
Contract Verified	<b>✓</b>	The contract source code is uploaded to blockchain explorer and is open source, so everybody can read it.
Contract Ownership	<b>~</b>	The ownership of the contract was sent to dead address. With this the owner eliminates he's rights to modify the contract. The owner can not set any of the functions anymore.
Buy Tax	10 %	Shows the taxes for purchase transactions. Above 10% may be considered a high tax rate. More than 50% tax rate means may not be tradable. Contract renounced so tax rate is fixed.
Sell Tax	10 %	Shows the taxes for sell transactions. Above 10% may be considered a high tax rate. More than 50% tax rate means may not be tradable. Contract renounced so tax rate is fixed.
Honeypot Analyse	~	Holder is able to buy and sell. If honeypot: The contract blocks sell transfer from holder wallet. Multiple events may cause honeypot. Trading disabled, extremely high tax
Liqudity Status	~	Locked on 29.08.2023: 87% % for 3628 days on DxSale  Note! Initial liqudity tokens scanned. For new LP Lockers allways re-check with skeleton scanner on telegram.
Trading Disable Functions	<b>✓</b>	No trading suspendable function found.  If a suspendable code is included, the token maybe neither be bought or sold (honeypot risk). If contract is renounced this function can't be used.   If there is authorised hidden owner, or there is Retrieve Ownership Function, the trading disable function may be used!
Set Fees function	~	No Fee Setting function found.  The contract owner may contain the authority to modify the transaction tax. If the transaction tax is increased to more than 49%, the tokens may not be able to be traded (honeypot risk). If contract is renounced this function can't be used.  A If there is authorised hidden owner, or there is Retrieve Ownership Function, the set fees function may be used!  Renounced, this function can not be used.
Proxy Contract	<b>✓</b>	Not a Proxy Contract. The proxy contract means contract owner can modifiy the function of the token and possibly effect the price. The Owner is not the creator but the creator may have authorisation to change functions.
Mint Function	<b>✓</b>	No mint function found.  Mint function is transparent or non-existent. Hidden mint functions may increase the amount of tokens in circulation and effect the price of the token. Owner can mint new tokens and sell. If contract is renounced this function can't be used.



Balance	<b>✓</b>	No Balance Modifier function found.			
Modifier Function		If there is a function for this, the contract owner can have the authority to modify the balance of tokens at other addresses. For example revoke the bought tokens from the holders wallet. Common form of scam: You buy the token, but it's disappearing from your wallet.			
		⚠ If contract is renounced this function still can be used as auto self Destruct			
Whitelist	<u> </u>	Whitelist Function Found.			
Function		If there is a function for this Developer can set zero fee or no max wallet size for adresses (for example team wallets can trade without fee. Can cause farming)			
		If there is a whitelist, some addresses may not be able to trade normally (honeypot risk). Renounced, this function can not be used.			
Hidden	<b>✓</b>	No authorised hidden owner found.			
Owner Analysis		For contract with a hidden owner, developer can still manipulate the contract even if the ownership has been abandoned. Fake renounce.			
Retrieve Ownership	<b>✓</b>	No functions found which can retrieve ownership of the contract.			
Function		If this function exists, it is possible for the project owner to regain ownership even after relinquishing it. Also known as fake renounce.			
Self	<b>✓</b>	No Self Destruct function found.			
Destruct Function		If this function exists and is triggered, the contract will be destroyed, all functions will be unavailable, and all related assets will be erased.			
Specific	<u> </u>	Specific Tax Changing Functions found.			
Tax		✓ Renounced, this function can not be used.			
Changing Function		If it exists, the contract owner may set a very outrageous tax rate for assigned address to block it from trading. Can assign all wallets at once!			
Trading	<u> </u>	Trading Cooldown Function found.			
Cooldown		☑ Renounced, this function can not be modified.			
Function		If there is a trading cooldown function, the user will not be able to sell the token within a certain time or block after buying. Like a temporary honeypot.			
Max	<b>~</b>	Max Transaction and Holding Modify function found.			
Transaction		Renounced, this function can not be used.			
and Holding Modify Function		If there is a function for this, the maximum trading amount or maximum position can be modified. Can cause honeypot			
Transaction	~	Transaction Limiter Function Found.			
Limiting		Renounced, this function can not be used.			
Function		The number of overall token transactions may be limited (honeypot risk)			



Contract Safety and Weakness Total Findings: 9





No critical severity Issues found

No high severity issues found

### Medium severity issues: (3)

- Approve front running attack
- Return value of low level call
- Unary Expressions

### Low severity issues: (5)

- Multiple Pragma Versions
- Missing Events
- Use of Floating Pragma
- Outdated compiler versions
- Long Number Literals

### Informational severity issues: (1)

• Hard Coded Address



# ⚠ Approve Front Running Attack (2 Items) Severity: Medium

```
135
136
          function approve(address spender, uint256 amount) public virtual override returns (bool) {
137
            address owner = _msgSender();
             _approve(owner, spender, amount);
138
139
            return true;
140
         }
142
143
          * @dev See {IERC20-transferFrom}.
144
145
        * Emits an {Approval} event indicating the updated allowance. This is not
321
          * Might emit an {Approval} event.
322
324
         function _spendAllowance(address owner, address spender, uint256 amount) internal virtual {
325
             uint256 currentAllowance = allowance(owner, spender);
326
             if (currentAllowance != type(uint256).max) {
327
                require(currentAllowance >= amount, "ERC20: insufficient allowance");
328
                unchecked {
329
                     _approve(owner, spender, currentAllowance - amount);
330
         }
332
333
334
335
         * @dev Hook that is called before any transfer of tokens. This includes
```

Function	Severity	Remedation
The approve() method overrides current allowance regardless of whether the spender already used it or not, so there is no way to increase or decrease allowance by a certain value atomically unless the token owner is a smart contract, not an account. This can be abused by a token receiver when they try to withdraw certain tokens from the sender's account.  Meanwhile, if the sender decides to change the amount and sends another approve transaction, the receiver can notice this transaction before it's	Severity : Medium	Only use the approve function of the ERC/BEP standard to change the allowed amount to 0 or from 0 (wait till



mined and can extract tokens from both the transactions, therefore, ending up with tokens from both the transactions. This is a front-running attack affecting the ERC20 Approve function. The function approve can be front-run by abusing	contracts with verified source code that does not contain logic for performing attacks like described above, and to accounts owned by the people you may trust.
• •	

⚠ Return Value of Low level call (1 item)
Severity: Medium

```
300
                      uint256 coinsReceived = address(this).balance;
301
302
303
                      if (marketingPortion > 0) {
304
                          (success,) = payable(address(marketingAddress)).call{value: marketingPortion}("");
305
                         require(success, "TaxesDefaultRouterWalletCoin: Fee transfer error");
306
                         emit marketingFeeSent(marketingAddress, marketingPortion);
307
308
                      _marketingPending = 0;
309
```

Function	Severity	Remedation
The functions do not check the return value of low-level calls. This can lock Ether in the contract if the call fails or may compromise the contract if the ownership is being changed.  The following calls were detected without return value validations - call	Severity : Medium	Ensure return value is checked using conditional statements for low-level calls. We should also ensure that we log failed calls using events.

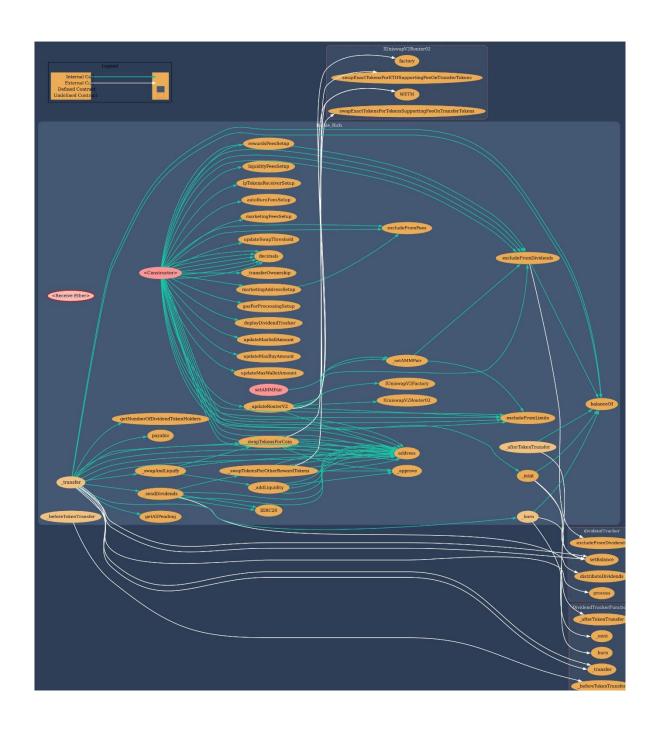


⚠ Dangerous Unary Expression (1 item)
Severity: Medium

Function	Severity	Remedation
Mathematical operations in the smart contracts forms the base for all the arithmetic logic in the code. Care should be taken when implementing these because they may control critical function logic, tokens, ether, etc.  The contract was found to be incorrectly implementing arithmetic expressions assuming the contract wanted to add the value of a to b and store it back in a.  Correct usage: a += b; Incorrect usage: a =+b;	Severity : Medium	Developers should exercise caution when writing these expressions because a simple mistake may cause loss of funds or compromise of the contract.  Make sure that the expressions used are in the correct format, i.e., a += b; and not a =+b;.



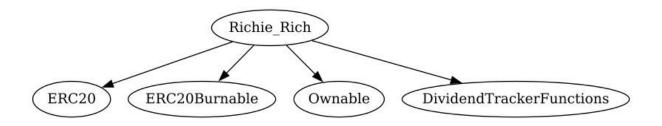
# Contract Flow Graph







# Inheritance Graph





# Contract Descriptions

Contract	Туре	Bases		
			Mutabili	Modifie
	Function Name	Visibility	ty	rs
Richie_R ich	Implementation	ERC20, ERC20Burnable, Ownable, DividendTrackerFunc tions		
		Public [		ERC20
		External [	ØБ	№Д
	decimals	Public 🎚		№Д
	_swapTokensForCoin	Private 🖺		
	updateSwapThreshold	Public [		onlyOwn er
	getAllPending	Public 🌡		№Д
	marketingAddressSetup	Public [		onlyOwn er
	marketingFeesSetup	Public [		onlyOwn er
	autoBurnFeesSetup	Public [		onlyOwn er
	_swapAndLiquify	Private 🖺		
	_addLiquidity	Private 🖺		
	lpTokensReceiverSetup	Public [		onlyOwn er
	liquidityFeesSetup	Public [		onlyOwn er
	_swapTokensForOtherReward Tokens	Private 🖺		
	_sendDividends	Private 🖺		
	excludeFromDividends	Public [		onlyOwn er
	rewardsFeesSetup	Public [		onlyOwn er
	_burn	Internal 🖺		



_mint	Internal 🖺	
excludeFromFees	Public [	onlyOwn er
_transfer	Internal 🖺	
_updateRouterV2	Private 🖺	
setAMMPair	Public [	onlyOwn er
_setAMMPair	Private 🖺	
excludeFromLimits	Public [	onlyOwn er
updateMaxWalletAmount	Public 🌡	onlyOwn er
updateMaxBuyAmount	Public 🌡	onlyOwn er
updateMaxSellAmount	Public 🌡	onlyOwn er
_beforeTokenTransfer	Internal 🖺	
_afterTokenTransfer	Internal 🖺	

Function can modify state

**5** 

Function is payable

### Source:

File Name SHA-1 Hash

c:\Solidity\richierich.sol f7a4996563f9cae3ef03072c3579ef4fab1f726d



### Audit Scope

### Audit Method.

Our smart contract audit is an extensive methodical examination and analysis of the smart contract's code that is used to interact with the blockchain. Goal: discover errors, issues and security vulnaribilities in the code. Findings getting reported and improvements getting suggested.

### Automatic and Manual Review

We are using automated tools to scan functions and weeknesses of the contract. Transfers, integer over-undeflow checks such as all CWE events.

#### Tools we use:

Visual Studio Code CWE SWC Solidity Scan SVD

In manual code review our auditor looking at source code and performing line by line examination. This method helps to clarify developer's coding decisions and business logic.

### **Skeleton Ecosystem**

https://skeletonecosystem.com

https://github.com/SkeletonEcosystem/Audits

