auditace.tech

AuditAce
FROM INCEPTION TO SUCCESS

Smart Contract Audit

FOR

Luffy op

DATED : 29 MAR 23'

AUDIT SUMMARY

Project name – Luffy op

Date: 29 March, 2023

Scope of Audit- Audit Ace was consulted to conduct the smart contract audit of the solidity source codes.

Audit Status: Passed

Issues Found

Status	Critical	High	Medium	Low	Suggestion
Open	0	0	0	0	0
Acknowledged	0	0	0	0	0
Resolved	0	0	0	0	0

USED TOOLS

Tools:

1- Manual Review:
a line by line code review has been performed by audit ace team.

2- BSC Testnet network:
all tests were done on Bsc Testnet network, each test has its transaction has attached to it.

3- Slither : Static Analysis

Testnet Link: all tests were done using this contract, tests are done on BSC Testnet

https://testnet.bscscan.com/token/0x7eb2bf681cc3f6055fe960053cf4dfde957988f4

Token Information

Token Name : Luffy op

Token Symbol: Luffy op

Decimals: 9

Token Supply: 1,000,000,000,000,000

Token Address:
0x271e2054C0B4d950D8785Fe1513835691ebbb3ce

Checksum:
19ce8b1d6cbea46ac0f5ba96100710d6561d8bc9

Owner:
0x0000000000000000000000000000000000000000
(renounced)

TOKEN OVERVIEW

Fees:

Buy Fees: 9%

Sell Fees: 9%

Transfer Fees: 9%

Fees Privilige: owned

Ownership : Renounced

Minting: No mint function

Max Tx Amount/ Max Wallet Amount: No

Blacklist: No

Other Priviliges: None

AUDIT METHODOLOGY

The auditing process will follow a routine as special considerations by Auditace:

- Review of the specifications, sources, and instructions provided to Auditace to make sure the contract logic meets the intentions of the client without exposing the user's funds to risk.
- Manual review of the entire codebase by our experts, which is the process of reading source code line-by-line in an attempt to identify potential vulnerabilities.
- Specification comparison is the process of checking whether the code does what the specifications, sources, and instructions provided to Auditace describe.
- Test coverage analysis determines whether the test cases are covering the code and how much code isexercised when we run the test cases.
- Symbolic execution is analysing a program to determine what inputs cause each part of a program to execute.
- Reviewing the codebase to improve maintainability, security, and control based on the established industry and academic practices.

VULNERABILITY CHECKLIST

- [x] Return values of low-level calls
- [x] Private modifier
- [x] Multiple Sends
- [x] Using Suicide
- [x] Gas Limitand Loops
- [x] Address hardcoded
- [x] Exception Disorder
- [x] Using inline assembly
- [x] Divide before multiply
- [x] Missing Zero Address Validation
- [x] Compiler version not fixed
- [x] **Gasless Send**
- [x] Using block.timestamp
- [x] Re-entrancy
- [x] Tautology or contradiction
- [x] Timestamp Dependence
- [x] Revert/require functions
- [x] Use of tx.origin
- [x] Integer overflow/underflow
- [x] Dangerous strict equalities
- [x] Using SHA3
- [x] Using throw

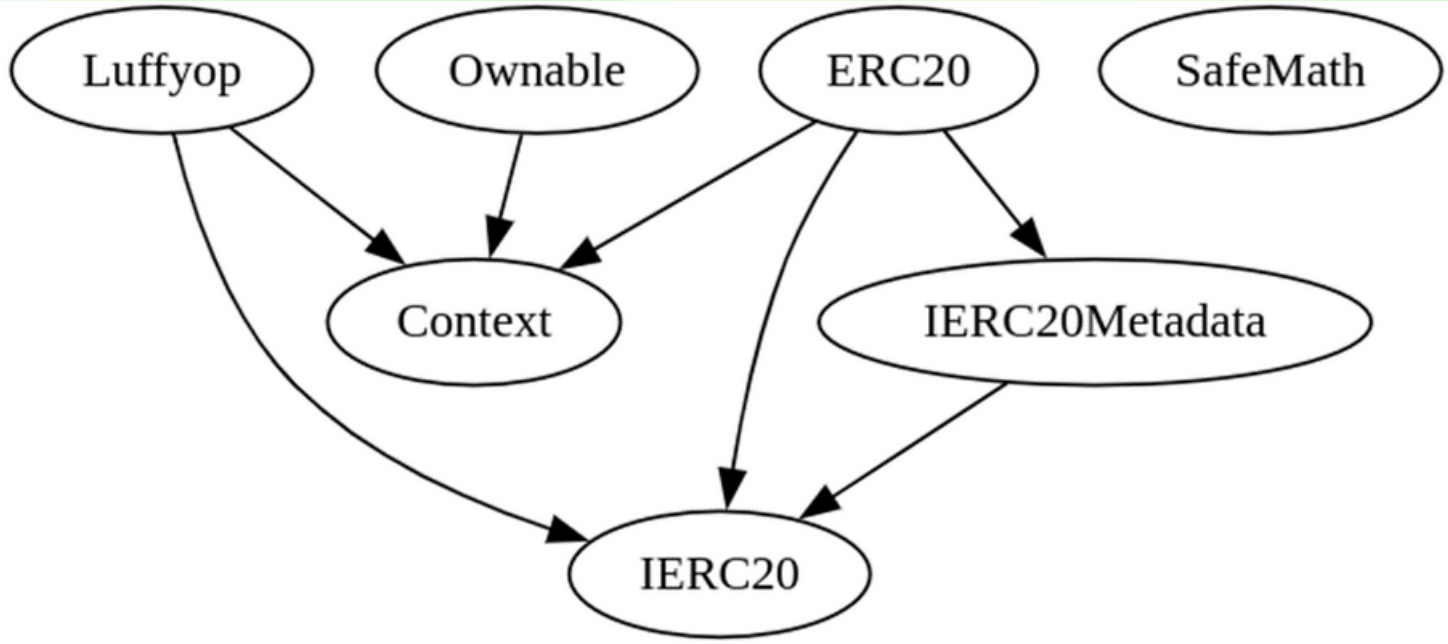
CLASSIFICATION OF RISK

Severity	Description
Critical	These vulnerabilities could be exploited easily and can lead to asset loss, data loss, asset, or data manipulation. They should be fixed right away.
High-Risk	A vulnerability that affects the desired outcome when using a contract, or provides the opportunity to use a contract in an unintended way.
Medium-Risk	A vulnerability that could affect the desired outcome of executing the contract in a specific scenario.
Low-Risk	A vulnerability that does not have a significant impact on possible scenarios for the use of the contract and is probably subjective.
Gas Optimization /Suggestion	A vulnerability that has an informational character but is not affecting any of the code.

Findings

Severity	Found
Critical	0
High-Risk	0
Medium-Risk	0
Low-Risk	0
Gas Optimization / Suggestions	0

INHERITANCE TREE



POINTS TO NOTE

- Ownership is renounced, meaning owner has not control over the contract functions
- Owner is not able to modify buy/sell/transfer fees (9% for each)
- Owner is not able to set max buy/sell/transfer/hold amount
- Owner is not able to blacklist an arbitrary wallet
- Owner is not able to disable trades
- Owner is not able to mint new tokens

CONTRACT ASSESMENT

Contract	Type	Bases		
└	**Function Name**	**Visibility**	**Mutability**	**Modifiers**
IERC20	Interface			
└	totalSupply	External ❗		NO❗
└	balanceOf	External ❗		NO❗
└	transfer	External ❗	🛑	NO❗
└	allowance	External ❗		NO❗
└	approve	External ❗	🛑	NO❗
└	transferFrom	External ❗	🛑	NO❗
SafeMath	Library			
└	add	Internal 🔒		
└	sub	Internal 🔒		
└	mul	Internal 🔒		
└	div	Internal 🔒		
└	sub	Internal 🔒		
└	div	Internal 🔒		
Context	Implementation			
└	_msgSender	Internal 🔒		
└	_msgData	Internal 🔒		
Address	Library			
└	isContract	Internal 🔒		
└	sendValue	Internal 🔒	🛑	
└	functionCall	Internal 🔒	🛑	
└	functionCall	Internal 🔒	🛑	
└	functionCallWithValue	Internal 🔒	🛑	
└	functionCallWithValue	Internal 🔒	🛑	
└	functionStaticCall	Internal 🔒		
└	functionStaticCall	Internal 🔒		
└	functionDelegateCall	Internal 🔒	🛑	
└	functionDelegateCall	Internal 🔒	🛑	
└	_verifyCallResult	Private 🔐		
IUniswapV2Factory	Interface			
└	feeTo	External ❗		NO❗
└	feeToSetter	External ❗		NO❗
└	getPair	External ❗		NO❗
└	allPairs	External ❗		NO❗

CONTRACT ASSESMENT

└	allPairsLength	External ❗			NO❗
└	createPair	External ❗	🛑	NO❗
└	setFeeTo	External ❗	🛑	NO❗
└	setFeeToSetter	External ❗	🛑	NO❗
IUniswapV2Pair	Interface			
└	name	External ❗		NO❗
└	symbol	External ❗		NO❗
└	decimals	External ❗		NO❗
└	totalSupply	External ❗		NO❗
└	balanceOf	External ❗		NO❗
└	allowance	External ❗		NO❗
└	approve	External ❗	🛑	NO❗
└	transfer	External ❗	🛑	NO❗
└	transferFrom	External ❗	🛑	NO❗
└	DOMAIN_SEPARATOR	External ❗		NO❗
└	PERMIT_TYPEHASH	External ❗		NO❗
└	nonces	External ❗		NO❗
└	permit	External ❗	🛑	NO❗
└	MINIMUM_LIQUIDITY	External ❗		NO❗
└	factory	External ❗		NO❗
└	token0	External ❗		NO❗
└	token1	External ❗		NO❗
└	getReserves	External ❗		NO❗
└	price0CumulativeLast	External ❗		NO❗
└	price1CumulativeLast	External ❗		NO❗
└	kLast	External ❗		NO❗
└	burn	External ❗	🛑	NO❗
└	swap	External ❗	🛑	NO❗
└	skim	External ❗	🛑	NO❗
└	sync	External ❗	🛑	NO❗
└	initialize	External ❗	🛑	NO❗
IUniswapV2Router01	Interface			
└	factory	External ❗		NO❗
└	WETH	External ❗		NO❗
└	addLiquidity	External ❗	🛑	NO❗
└	addLiquidityETH	External ❗	💵	NO❗
└	removeLiquidity	External ❗	🛑	NO❗
└	removeLiquidityETH	External ❗	🛑	NO❗
└	removeLiquidityWithPermit	External ❗	🛑	NO❗

CONTRACT ASSESMENT

└	removeLiquidityETHWithPermit	External ❗	🛑	NO❗
└	swapExactTokensForTokens	External ❗	🛑	NO❗
└	swapTokensForExactTokens	External ❗	🛑	NO❗
└	swapExactETHForTokens	External ❗	💵	NO❗
└	swapTokensForExactETH	External ❗	🛑	NO❗
└	swapExactTokensForETH	External ❗	🛑	NO❗
└	swapETHForExactTokens	External ❗	💵	NO❗
└	quote	External ❗		NO❗
└	getAmountOut	External ❗		NO❗
└	getAmountIn	External ❗		NO❗
└	getAmountsOut	External ❗		NO❗
└	getAmountsIn	External ❗		NO❗
IUniswapV2Router02	Interface	IUniswapV2Router01		
└	removeLiquidityETHSupportingFeeOnTransferTokens	External ❗	🛑	NO❗
└	removeLiquidityETHWithPermitSupportingFeeOnTransferTokens	External ❗	🛑	NO❗
└	swapExactTokensForTokensSupportingFeeOnTransferTokens	External ❗	🛑	NO❗
└	swapExactETHForTokensSupportingFeeOnTransferTokens	External ❗	💵	NO❗
└	swapExactTokensForETHSupportingFeeOnTransferTokens	External ❗	🛑	NO❗
Luffyop	Implementation	Context, IERC20		
└	owner	Public ❗		NO❗
└	renounceOwnership	Public ❗	🛑	NO❗
└	<Constructor>	Public ❗	🛑	NO❗
└	name	Public ❗		NO❗
└	symbol	Public ❗		NO❗
└	decimals	Public ❗		NO❗
└	totalSupply	Public ❗		NO❗
└	balanceOf	Public ❗		NO❗
└	transfer	Public ❗	🛑	NO❗
└	allowance	Public ❗		NO❗
└	approve	Public ❗	🛑	NO❗
└	transferFrom	Public ❗	🛑	NO❗
└	increaseAllowance	Public ❗	🛑	NO❗
└	decreaseAllowance	Public ❗	🛑	NO❗
└	<Receive Ether>	External ❗	💵	NO❗
└	_getCurrentSupply	Private 🔐		
└	_approve	Private 🔐	🛑	
└	_transfer	Private 🔐	🛑	
└	sendToWallet	Private 🔐	🛑	
└	swapAndLiquify	Private 🔐	🛑	lockTheSwap

CONTRACT ASSESMENT

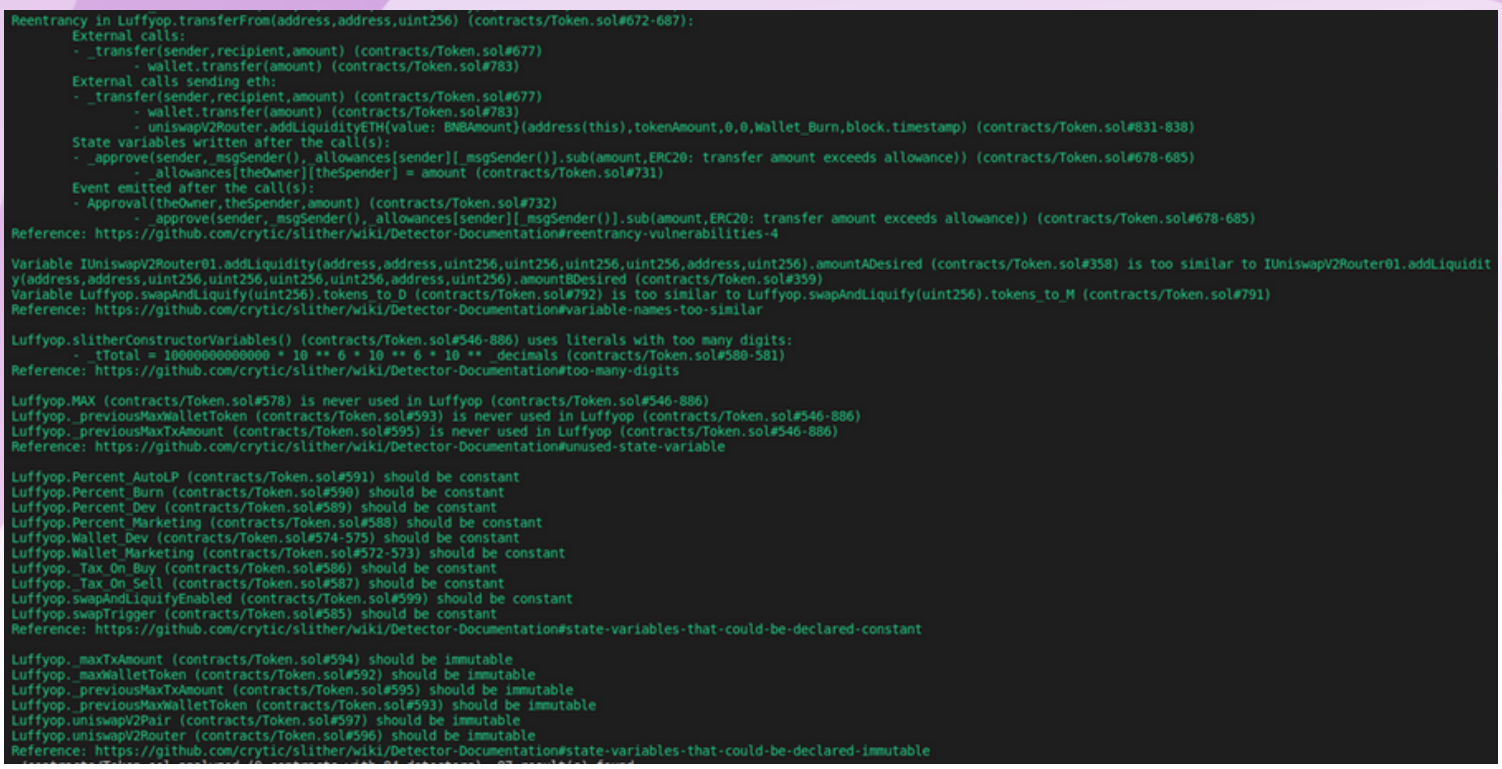
└	swapTokensForBNB	Private 🔐	🛑	
└	addLiquidity	Private 🔐	🛑	
└	remove_Random_Tokens	Public ❗	🛑	|NO❗
└	_tokenTransfer	Private 🔐	🛑	
ERC20	Implementation	Context, IERC20, IERC20Metadata		
└	<Constructor>	Public ❗	🛑	|NO❗
└	name	Public ❗		|NO❗
└	symbol	Public ❗		|NO❗
└	decimals	Public ❗		|NO❗
└	totalSupply	Public ❗		|NO❗
└	balanceOf	Public ❗		|NO❗
└	transfer	Public ❗	🛑	|NO❗
└	allowance	Public ❗		|NO❗
└	approve	Public ❗	🛑	|NO❗
└	transferFrom	Public ❗	🛑	|NO❗
└	increaseAllowance	Public ❗	🛑	|NO❗
└	decreaseAllowance	Public ❗	🛑	|NO❗
└	_transfer	Internal 🔒	🛑	
└	_mint	Internal 🔒	🛑	
└	_burn	Internal 🔒	🛑	
└	_approve	Internal 🔒	🛑	
└	_spendAllowance	Internal 🔒	🛑	
└	_beforeTokenTransfer	Internal 🔒	🛑	
└	_afterTokenTransfer	Internal 🔒	🛑	
IERC20	Interface			
└	totalSupply	External ❗		|NO❗
└	balanceOf	External ❗		|NO❗
└	transfer	External ❗	🛑	|NO❗
└	allowance	External ❗		|NO❗
└	approve	External ❗	🛑	|NO❗
└	transferFrom	External ❗	🛑	|NO❗
IERC20Metadata	Interface	IERC20		
└	name	External ❗		|NO❗
└	symbol	External ❗		|NO❗
└	decimals	External ❗		|NO❗
Context	Implementation			
└	_msgSender	Internal 🔒		
└	_msgData	Internal 🔒		

CONTRACT ASSESMENT

Ownable	Implementation	Context		
└	<Constructor>	Public ❗	🛑	NO❗
└	owner	Public ❗		NO❗
└	_checkOwner	Internal 🔒		
└	renounceOwnership	Public ❗	🛑	onlyOwner
└	transferOwnership	Public ❗	🛑	onlyOwner
└	_transferOwnership	Internal 🔒	🛑	
SafeMath	Library				
└	tryAdd	Internal 🔒		
└	trySub	Internal 🔒		
└	tryMul	Internal 🔒		
└	tryDiv	Internal 🔒		
└	tryMod	Internal 🔒		
└	add	Internal 🔒		
└	sub	Internal 🔒		
└	mul	Internal 🔒		
└	div	Internal 🔒		
└	mod	Internal 🔒		
└	sub	Internal 🔒		
└	div	Internal 🔒		
└	mod	Internal 🔒		

Symbol	Meaning
🛑	Function can modify state
💵	Function is payable

STATIC ANALYSIS



```
Reentrancy in Luffyop.transferFrom(address,address,uint256) (contracts/Token.sol#672-687):
        External calls:
        - _transfer(sender,recipient,amount) (contracts/Token.sol#677)
                - wallet.transfer(amount) (contracts/Token.sol#783)
        External calls sending eth:
        - _transfer(sender,recipient,amount) (contracts/Token.sol#677)
                - wallet.transfer(amount) (contracts/Token.sol#783)
                - uniswapV2Router.addLiquidityETH{value: BNBAmount}(address(this),tokenAmount,0,0,Wallet_Burn,block.timestamp) (contracts/Token.sol#831-838)
        State variables written after the call(s):
        - _approve(sender,_msgSender(),_allowances[sender][_msgSender()].sub(amount,ERC20: transfer amount exceeds allowance)) (contracts/Token.sol#678-685)
                - _allowances[theOwner][theSpender] = amount (contracts/Token.sol#731)
        Event emitted after the call(s):
        - Approval(theOwner,theSpender,amount) (contracts/Token.sol#732)
                - _approve(sender,_msgSender(),_allowances[sender][_msgSender()].sub(amount,ERC20: transfer amount exceeds allowance)) (contracts/Token.sol#678-685)
Reference: https://github.com/crytic/slither/wiki/Detector-Documentation#reentrancy-vulnerabilities-4

Variable IUniswapV2Router01.addLiquidity(address,address,uint256,uint256,uint256,uint256,address,uint256).amountADesired (contracts/Token.sol#358) is too similar to IUniswapV2Router01.addLiquidit
y(address,address,uint256,uint256,uint256,uint256,address,uint256).amountBDesired (contracts/Token.sol#359)
Variable Luffyop.swapAndLiquify(uint256).tokens_to_D (contracts/Token.sol#792) is too similar to Luffyop.swapAndLiquify(uint256).tokens_to_M (contracts/Token.sol#791)
Reference: https://github.com/crytic/slither/wiki/Detector-Documentation#variable-names-too-similar

Luffyop.slitherConstructorVariables() (contracts/Token.sol#546-886) uses literals with too many digits:
        - _tTotal = 10000000000000 * 10 ** 6 * 10 ** 6 * 10 ** _decimals (contracts/Token.sol#580-581)
Reference: https://github.com/crytic/slither/wiki/Detector-Documentation#too-many-digits

Luffyop.MAX (contracts/Token.sol#578) is never used in Luffyop (contracts/Token.sol#546-886)
Luffyop._previousMaxWalletToken (contracts/Token.sol#593) is never used in Luffyop (contracts/Token.sol#546-886)
Luffyop._previousMaxTxAmount (contracts/Token.sol#595) is never used in Luffyop (contracts/Token.sol#546-886)
Reference: https://github.com/crytic/slither/wiki/Detector-Documentation#unused-state-variable

Luffyop.Percent_AutoLP (contracts/Token.sol#591) should be constant
Luffyop.Percent_Burn (contracts/Token.sol#590) should be constant
Luffyop.Percent_Dev (contracts/Token.sol#589) should be constant
Luffyop.Percent_Marketing (contracts/Token.sol#588) should be constant
Luffyop.Wallet_Dev (contracts/Token.sol#574-575) should be constant
Luffyop.Wallet_Marketing (contracts/Token.sol#572-573) should be constant
Luffyop._Tax_On_Buy (contracts/Token.sol#586) should be constant
Luffyop._Tax_On_Sell (contracts/Token.sol#587) should be constant
Luffyop.swapAndLiquifyEnabled (contracts/Token.sol#599) should be constant
Luffyop.swapTrigger (contracts/Token.sol#585) should be constant
Reference: https://github.com/crytic/slither/wiki/Detector-Documentation#state-variables-that-could-be-declared-constant

Luffyop._maxTxAmount (contracts/Token.sol#594) should be immutable
Luffyop._maxWalletToken (contracts/Token.sol#592) should be immutable
Luffyop._previousMaxTxAmount (contracts/Token.sol#595) should be immutable
Luffyop._previousMaxWalletToken (contracts/Token.sol#593) should be immutable
Luffyop.uniswapV2Pair (contracts/Token.sol#597) should be immutable
Luffyop.uniswapV2Router (contracts/Token.sol#596) should be immutable
Reference: https://github.com/crytic/slither/wiki/Detector-Documentation#state-variables-that-could-be-declared-immutable
```

Result => A static analysis of contract's source code has been performed using slither,

No issues found

FUNCTIONAL TESTING

Router (PCS V2):
0xD99D1c33F9fC3444f8101754aBC46c52416550D1

1- Adding Liquidity (Passed):
liquidity added on Pancakeswap V2:

https://testnet.bscscan.com/tx/0x500149db927f0f8aa609667f4a96a1d06f8652df2bdd41c1946c1bf49aaf77ef

2- Buying when trading not enabled (owner%)(Passed):

https://testnet.bscscan.com/tx/0x9263fbb988402e34832a1a54b7e6dc1362b86e690b693c254972ba90ee8ddb9f

3- Selling when trading not enabled (0%)(Passed):

https://testnet.bscscan.com/tx/0x4cf7fd2a3bb6f24f536c8e905021f0f2eb75262b1fa668dfe078ecbfd254b295

4- Transferring when trading not enabled (0% tax) (passed):

https://testnet.bscscan.com/tx/0xe4d828bf612389f2012b4260f71a4189679b014311ac64d51e558c347d7df754

5- Buying when trading enabled (9% tax) (passed):

https://testnet.bscscan.com/tx/0xda4c3d6a821092ae1ee0a488e3670107645c55e5844a1bcdde0bc3238266f7d5

FUNCTIONAL TESTING

6- Selling when trading enabled (9% tax) (passed):

https://testnet.bscscan.com/tx/0x6d84d23abc9a7bea39472cbc2a9f9d9d72df257a751da68ede8cd9219b806069

7- Transferring when trading enabled (9% tax) (passed):

https://testnet.bscscan.com/tx/0xe0a4bd14ef2bc75f71f42763b3dd47a5af13e6bde15bf5930cd779268ba45c15

MANUAL TESTING

No Issues Found

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