

Audit Report PEPPA PIG MAFIA

December 2021

Type BEP20

Address 0x4ad1525c316a3b815053d90df2<u>56b9bdc56b288f</u>

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COINSCOPE

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Contract Review

Contract Name	PeppaPigMafia
Compiler Version	v0.8.11+commit.d7f03943
Optimization	200 runs
Licence	MIT
Explorer	https://bscscan.com/token/0x4AD1525C316A3b81505 3d90DF256B9BdC56b288f
Symbol	PEPPA
Decimals	18
Total Supply	100,000,000
Source	contract.sol
Domain	peppapigmafia.com

Audit Updates

Initial Audit	13th January 2022
Corrected	



Contract Analysis

CriticalMediumMinorPass

Severity	Code	Description
•	ST	Contract Owner is not able to stop or pause transactions
•	OCTD	Contract Owner is not able to transfer tokens from specific address
•	OTUT	Owner Transfer User's Tokens
•	ELFM	Contract Owner is not able to increase fees more than a reasonable percent (25%)
•	ULTW	Contract Owner is not able to increase the amount of liquidity taken by dev wallet more than a reasonable percent
•	MT	Contract Owner is not able to mint new tokens
•	ВТ	Contract Owner is not able to burn tokens from specific wallet
•	ВС	Contract Owner is not able to blacklist wallets from selling



Contract Diagnostics

CriticalMediumMinor

Severity	Code	Description
•	L01	Public Function could be Declared External
•	L02	State Variables could be Declared Constant
•	L05	Unused State Variable
•	L03	Redundant Statements
•	L04	Conformance to Solidity Naming Conventions
•	L09	Dead Code Elimination
•	L07	Missing Events Arithmetic
•	L08	Tautology or Contradiction



L01 - Public Function could be Declared External

Criticality	minor
Location	contract.sol#L474,L465,L186 and 8 more

Description

Public functions that are never called by the contract should be declared external to save gas.

transferOwnership
renounceOwnership
decreaseAllowance
...

Recommendation

Use the external attribute for functions never called from the contract



L02 - State Variables could be Declared Constant

Criticality	minor
Location	contract.sol#L1151,L1134,L1136

Description

Constant state variables should be declared constant to save gas.

manualBurnFrequency liquidityActiveBlock earlyBuyPenaltyEnd

Recommendation

Add the constant attribute to state variables that never change.



L05 - Unused State Variable

Criticality	minor
Location	contract.sol#L485

Description

There are segments that contains unused state variable.

SafeMathInt

Recommendation

Remove unused state variables.



L03 - Redundant Statements

Criticality	minor
Location	contract.sol#L11

Description

Detect the usage of redundant statements that have no effect.

Context

Recommendation

Remove redundant statements if they congest code but offer no value.



L04 - Conformance to Solidity Naming Conventions

Criticality	minor
Location	contract.sol#L1181,L1154,L1739 and 18 more

Description

Solidity defines a naming convention that should be followed. Rule exceptions:

- Allow constant variable name/symbol/decimals to be lowercase.
- Allow _ at the beginning of the mixed_case match for private variables and unused parameters.

```
_isExcludedMaxTransactionAmount
feeDivisor
_Enabled
...
```

Recommendation

Follow the Solidity naming convention. https://docs.soliditylang.org/en/v0.4.25/style-guide.html#naming-conventions



L09 - Dead Code Elimination

Criticality	minor
Location	contract.sol#L490,L502,L531 and 4 more

Description

Functions that are not used in the contract, and make the code's size bigger.

```
mul div abs ...
```

Recommendation

Remove unused functions.



L07 - Missing Events Arithmetic

Criticality	minor
Location	contract.sol#L1739,L1348,L1339 and 2 more

Description

Detected missing events for critical arithmetic parameters. There are functions that have no event emitted, so it is difficult to track off-chain changes.

```
IpBurnFrequency = _frequencyInSeconds
marketingSellFee = _marketingFee
marketingBuyFee = _marketingFee
...
```

Recommendation

Emit an event for critical parameter changes.



L08 - Tautology or Contradiction

Criticality	minor
Location	contract.sol#L1739

Description

Detects expressions that are tautologies or contradictions. For instance, an uint variable will always be greater than or equal to zero.

require(bool,string)(_percent <= 1000 && _percent >= 0,Must set auto LP burn percent between 0% and 10%)

Recommendation

Fix the incorrect comparison by changing the value type or the comparison.



Contract Functions

Contract	Туре	Bases		
	Function Name	Visibility	Mutability	Modifiers
Context	Implementation			
	_msgSender	Internal		
	_msgData	Internal		
IUniswapV2Pai r	Interface			
	sync	External	✓	-
IUniswapV2Fa ctory	Interface			
	createPair	External	1	-
IERC20	Interface			
	totalSupply	External		-
	balanceOf	External		-
	transfer	External	1	-
	allowance	External		-
	approve	External	1	-
	transferFrom	External	1	-
IERC20Metada ta	Interface	IERC20		
	name	External		-
	symbol	External		-
	decimals	External		-
ERC20	Implementation	Context, IERC20, IERC20Meta data		
	<constructor></constructor>	Public	1	_



total bala		Public Public		-
deci total bala	imals	Public		
total bala				-
bala	Supply			
	11.7	Public		-
	nceOf	Public		-
trans	sfer	Public	✓	-
allov	vance	Public		-
аррг	rove	Public	✓	-
trans	sferFrom	Public	✓	-
incre	easeAllowance	Public	✓	-
decr	reaseAllowance	Public	✓	-
_trar	nsfer	Internal	✓	
_cre	eateInitialSupply	Internal	✓	
_app	prove	Internal	✓	
DividendPayin IntergTokenOption alInterface	rface			
with	drawableDividendOf	External		-
with	drawnDividendOf	External		-
accı	umulativeDividendOf	External		-
DividendPayin IntergTokenInterfac e	rface			
divic	dendOf	External		-
distr	ributeDividends	External	Payable	-
with	drawDividend	External	✓	-
SafeMath Libra	ary			
add		Internal		
sub		Internal		
sub		Internal		
		Internal		
mul				
mul div		Internal		
		Internal Internal		



	mod	Internal		
Ownable	Implementation	Context		
	<constructor></constructor>	Public	1	-
	owner	Public		-
	renounceOwnership	Public	1	onlyOwner
	transferOwnership	Public	1	onlyOwner
SafeMathInt	Library			
	mul	Internal		
	div	Internal		
	sub	Internal		
	add	Internal		
	abs	Internal		
	toUint256Safe	Internal		
SafeMathUint	Library			
	toInt256Safe	Internal		
IUniswapV2Ro uter01	Interface			
	factory	External		-
	WETH	External		-
	addLiquidity	External	✓	-
	addLiquidityETH	External	Payable	-
	removeLiquidity	External	✓	-
	removeLiquidityETH	External	1	-
	removeLiquidityWithPermit	External	1	-
	removeLiquidityETHWithPermit	External	1	-
	swapExactTokensForTokens	External	1	-
	swapTokensForExactTokens	External	1	-
	swapExactETHForTokens	External	Payable	-
	swapTokensForExactETH	External	1	-
	swapExactTokensForETH	External	1	-
	swapETHForExactTokens	External	Payable	-
	quote	External		-



	getAmountOut	External		-
	getAmountIn	External		-
	getAmountsOut	External		-
	getAmountsIn	External		-
IUniswapV2Ro uter02	Interface	IUniswapV2 Router01		
	removeLiquidityETHSupportingFeeOn TransferTokens	External	✓	-
	removeLiquidityETHWithPermitSuppor tingFeeOnTransferTokens	External	✓	-
	swapExactTokensForTokensSupportin gFeeOnTransferTokens	External	✓	-
	swapExactETHForTokensSupportingF eeOnTransferTokens	External	Payable	-
	swapExactTokensForETHSupportingF eeOnTransferTokens	External	✓	-
DividendPayin gToken	Implementation	DividendPay ingTokenInt erface, DividendPay ingTokenOp tionalInterface, Ownable		
	<receive ether=""></receive>	External	Payable	-
	distributeDividends	Public	Payable	-
	distributeTokenDividends	External	✓	onlyOwner
	withdrawDividend	External	✓	-
	_withdrawDividendOfUser	Internal	✓	
	dividendOf	External		-
	withdrawableDividendOf	Public		-
	withdrawnDividendOf	External		-
	accumulativeDividendOf	Public		-
	_increase	Internal	✓	
	_reduce	Internal	✓	
	_setBalance	Internal	✓	
DividendTrack er	Implementation	DividendPay ingToken		



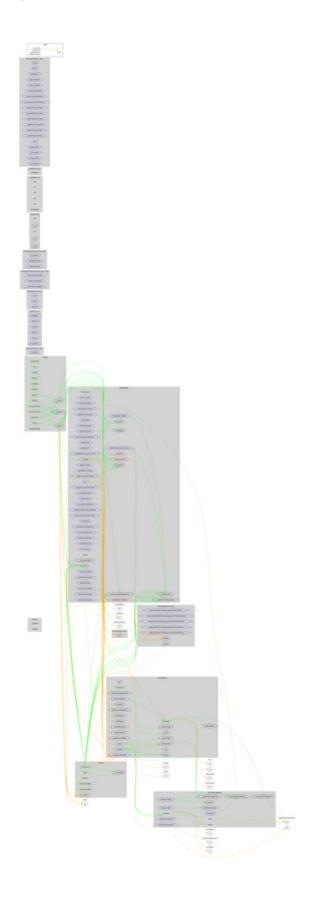
	get	Private		
	getIndexOfKey	Private		
	getKeyAtIndex	Private		
	size	Private		
	set	Private	✓	
	remove	Private	✓	
	<constructor></constructor>	Public	✓	-
	excludeFromDividends	External	1	onlyOwner
	includeInDividends	External	1	onlyOwner
	updateClaimWait	External	1	onlyOwner
	getLastProcessedIndex	External		-
	getNumberOfTokenHolders	External		-
	getAccount	Public		-
	getAccountAtIndex	External		-
	canAutoClaim	Private		
	setBalance	External	1	onlyOwner
	process	External	1	-
	processAccount	Public	1	onlyOwner
PeppaPigMafi a	Implementation	ERC20, Ownable		
	<constructor></constructor>	Public	1	ERC20
	<receive ether=""></receive>	External	Payable	-
	addPresaleAddressForExclusions	External	1	onlyOwner
	disableTransferDelay	External	1	onlyOwner
	excludeFromDividends	External	1	onlyOwner
	includeInDividends	External	1	onlyOwner
	enableTrading	External	1	onlyOwner
	updateSwapEnabled	External	1	onlyOwner
	updateMaxAmount	External	1	onlyOwner
	updateMaxWalletAmount	External	1	onlyOwner
	updateBuyFees	External	1	onlyOwner
	updateSellFees	External	1	onlyOwner
	excludeFromMaxTransaction	Public	1	onlyOwner
	excludeFromFees	Public	1	onlyOwner
	excludeMultipleAccountsFromFees	External	1	onlyOwner



setAutomatedMarketMakerPair	External	✓	onlyOwner
_setAutomatedMarketMakerPair	Private	✓	
updateMarketingWallet	External	✓	onlyOwner
updateDevAddress	External	1	onlyOwner
updateGasForProcessing	External	1	onlyOwner
updateClaimWait	External	1	onlyOwner
getClaimWait	External		-
getTotalDividendsDistributed	External		-
isExcludedFromFees	External		-
withdrawableDividendOf	External		-
dividendTokenBalanceOf	External		-
getAccountDividendsInfo	External		-
getAccountDividendsInfoAtIndex	External		-
processDividendTracker	External	1	-
claim	External	1	-
getLastProcessedIndex	External		-
getNumberOfDividendTokenHolders	External		-
getNumberOfDividends	External		-
removeLimits	External	1	onlyOwner
_transfer	Internal	1	
swapBnbForRewardToken	Private	1	
swapTokensForEth	Private	1	
addLiquidity	Private	1	
swapBack	Private	1	
buyBackTokens	External	✓	onlyOwner
withdrawStuckEth	External	✓	onlyOwner
setAutoLPBurnSettings	External	1	onlyOwner
autoBurnLiquidityPairTokens	Internal	1	
manualBurnLiquidityPairTokens	External	1	onlyOwner



Contract Flow





Domain

Domain Name	peppapigmafia.com
Registry Domain ID	2664684570_DOMAIN_COM-VRSN
Creation Date	2021-12-29T10:24:37.00Z
Updated Date	0001-01-01T00:00:00.00Z
Registry Expiry Date	
Registrar WHOIS Server	whois.namecheap.com
Registrar URL	http://www.namecheap.com
Registrar	NAMECHEAP INC
Registrar IANA ID	1068

The domain has been created 15 days before the creation of the audit.

There is no public billing information, the creator is protected by the privacy settings.



Summary

The contract analysis did not report any compiler error or critical issue. The smart contract contains features like distribution and auto-burn. Users that behave like bots, will have a hard penalty in the trades opening. There are some informative comments that do not affect the contract security.



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Coinscope is aiming to make crypto discoverable and efficient globally. It provides all the essential tools to assist users draw their own conclusions.



The Coinscope.co team

https://www.coinscope.co