

# Audit Report **SphynxFi**

October 2022

Type BEP20

Network BSC

Address 0x5F2D91c698f2Bc1Fd9E4a92b1fcdA4D4aD17e0d3

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# **Contract Review**

Contract Name	SphynxFi
Compiler Version	v0.8.17+commit.8df45f5f
Optimization	5000 runs
Licence	MIT
Explorer	https://bscscan.com/token/0x5F2D91c698f2Bc1Fd9E4a 92b1fcdA4D4aD17e0d3
Symbol	SF
Decimals	18
Total Supply	100,000,000
Domain	https://sphynxfi.com

# Source Files

Filename	SHA256
contract.sol	c0e328b04615786de124eab1335df4789b5350ed16231f9 4daae1c272299209b

# **Audit Updates**

Initial Audit	30th September 2022 https://github.com/cyberscope-io/audits/blob/main/1-sf/ v1/audit.pdf
Corrected	3rd October 2022

# **Contract Analysis**

Critical
 Medium
 Minor / Informative
 Pass

Severity	Code	Description	Status
•	ST	Stops Transactions	Passed
•	OCTD	Transfers Contract's Tokens	Passed
•	OTUT	Transfers User's Tokens	Passed
•	ELFM	Exceeds Fees Limit	Passed
•	ULTW	Transfers Liquidity to Team Wallet	Passed
•	MT	Mints Tokens	Passed
•	ВТ	Burns Tokens	Passed
•	ВС	Blacklists Addresses	Passed

# **Contract Diagnostics**

CriticalMediumMinor / Informative

Severity	Code	Description	Status
•	L01	Public Function could be Declared External	Unresolved
•	L04	Conformance to Solidity Naming Conventions	Unresolved
•	L07	Missing Events Arithmetic	Unresolved
•	L12	Using Variables before Declaration	Unresolved
•	L14	Uninitialized Variables in Local Scope	Unresolved



#### L01 - Public Function could be Declared External

Criticality	minor / informative
Location	contract.sol#L509,347,266
Status	Unresolved

#### Description

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

enableTrading getCirculatingSupply transfer

#### Recommendation

Use the external attribute for functions never called from the contract.



# L04 - Conformance to Solidity Naming Conventions

Criticality	minor / informative
Location	contract.sol#L33,121,351,128,113,110,109,112,129,146,130,111,127
Status	Unresolved

#### 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.

```
WETH
_taxRates
_antiBlock
maxSellTaxes
_tTotal
_name
startingSupply
_decimals
maxTransferTaxes
...
```

#### Recommendation

Follow the Solidity naming convention.

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



# L07 - Missing Events Arithmetic

Criticality	minor / informative
Location	contract.sol#L380,389
Status	Unresolved

#### 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.

```
swapThreshold = (_tTotal * thresholdPercent) / thresholdDivisor
piSwapPercent = priceImpactSwapPercent
```

#### Recommendation

Emit an event for critical parameter changes.



### L12 - Using Variables before Declaration

Criticality	minor / informative
Location	contract.sol#L538
Status	Unresolved

#### Description

The contract is using a variable before the declaration. This is usually happening either if it has not been declared yet or the variable has been declared in a different scope.

check

#### Recommendation

The variables should be declared before any usage of them.

# L14 - Uninitialized Variables in Local Scope

Criticality	minor / informative
Location	contract.sol#L538,537
Status	Unresolved

#### Description

The are variables that are defined in the local scope and are not initialized.

check checked

#### Recommendation

All the local scoped variables should be initialized.



# **Contract Functions**

Contract	Туре	Bases		
	Function Name	Visibility	Mutability	Modifiers
IERC20	Interface			
	totalSupply	External		-
	decimals	External		-
	symbol	External		-
	name	External		-
	getOwner	External		-
	balanceOf	External		-
	transfer	External	✓	-
	allowance	External		-
	approve	External	✓	-
	transferFrom	External	✓	-
IFactoryV2	Interface			
	getPair	External		-
	createPair	External	<b>√</b>	-
IV2Pair	Interface			
IVZFall		External		
	factory			-
	getReserves	External External	<b>✓</b>	-
	sync	External	<b>V</b>	-
IRouter01	Interface			
	factory	External		-
	WETH	External		-
	addLiquidityETH	External	Payable	-
	addLiquidity	External	1	-
	swapExactETHForTokens	External	Payable	-
	getAmountsOut	External		-



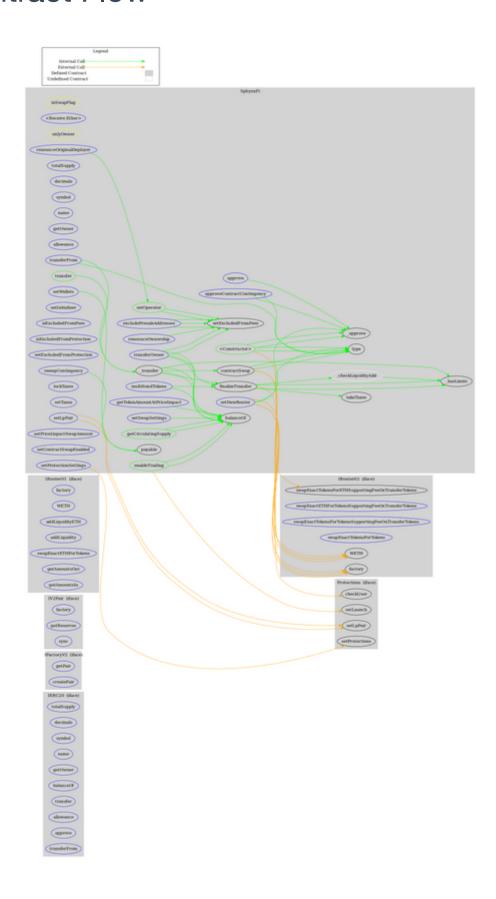
	getAmountsIn	External		-
IRouter02	Interface	IRouter01		
	swapExactTokensForETHSupporting FeeOnTransferTokens	External	<b>√</b>	-
	swapExactETHForTokensSupporting FeeOnTransferTokens	External	Payable	-
	swapExactTokensForTokensSupporti ngFeeOnTransferTokens	External	1	-
	swapExactTokensForTokens	External	✓	-
Protections	Interface			
	checkUser	External	<b>✓</b>	-
	setLaunch	External	<b>✓</b>	-
	setLpPair	External	1	-
	setProtections	External	✓	-
SphynxFi	Implementation	IERC20		
	<constructor></constructor>	Public	Payable	-
	<receive ether=""></receive>	External	Payable	-
	transferOwner	External	1	onlyOwner
	renounceOwnership	External	1	onlyOwner
	setOperator	Public	1	-
	renounceOriginalDeployer	External	✓	-
	totalSupply	External		-
	decimals	External		-
	symbol	External		-
	name	External		-
	getOwner	External		-
	allowance	External		-
	balanceOf	Public		-
	transfer	Public	1	-
	approve	External	1	-
	_approve	Internal	1	
	approveContractContingency	External	1	onlyOwner
	transferFrom	External	1	-



setNewRouter	External	<b>√</b>	onlyOwner
setLpPair	External	✓	onlyOwner
setInitializer	External	1	onlyOwner
isExcludedFromFees	External		-
isExcludedFromProtection	External		-
setExcludedFromFees	Public	✓	onlyOwner
setExcludedFromProtection	External	✓	onlyOwner
getCirculatingSupply	Public		-
setProtectionSettings	External	✓	onlyOwner
lockTaxes	External	✓	onlyOwner
setTaxes	External	1	onlyOwner
setWallets	External	1	onlyOwner
getTokenAmountAtPriceImpact	External		-
setSwapSettings	External	1	onlyOwner
setPriceImpactSwapAmount	External	1	onlyOwner
setContractSwapEnabled	External	1	onlyOwner
excludePresaleAddresses	External	✓	onlyOwner
_hasLimits	Internal		
_transfer	Internal	✓	
contractSwap	Internal	✓	inSwapFlag
_checkLiquidityAdd	Internal	1	
enableTrading	Public	1	onlyOwner
sweepContingency	External	1	onlyOwner
multiSendTokens	External	1	onlyOwner
finalizeTransfer	Internal	1	
takeTaxes	Internal	1	



# **Contract Flow**





# Domain Info

Domain Name	sphynxfi.com
Registry Domain ID	2726324204_DOMAIN_COM-VRSN
Creation Date	2022-09-19T11:03:53.00Z
Updated Date	0001-01-01T00:00:00.00Z
Registry Expiry Date	2023-09-19T11:03:53.00Z
Registrar WHOIS Server	whois.namecheap.com
Registrar URL	http://www.namecheap.com
Registrar	NAMECHEAP INC
Registrar IANA ID	1068

The domain was created 11 days before the creation of the audit. It will expire in 12 months.

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



# Summary

SphynxFi Token is an interesting project that has a friendly and growing community. The Smart Contract analysis reported no compiler error or critical issues. The contract Owner can access some admin functions that can not be used in a malicious way to disturb the users' transactions. There is also a limit of max 5% fees.



#### Disclaimer

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# About Cyberscope

Coinscope audit and K.Y.C. service has been rebranded to Cyberscope.

Coinscope is the leading early coin listing, voting and auditing authority firm. The audit process is analyzing and monitoring many aspects of the project. That way, it gives the community a good sense of security using an informative report and a generic score.

Cyberscope and Coinscope are aiming to make crypto discoverable and efficient globally. They provide all the essential tools to assist users draw their own conclusions.



The Cyberscope team

https://www.cyberscope.io