





Disclaimer

This document contains our findings for the basic screening/review of a cryptographic asset. This is not a full-fledged or comprehensive audit where in-depth vulnerabilities are found and/or corrected. A screen audit consists of a manual screening of the project's codebase, structure, and functionalities. It's a good starting point for a comprehensive audit, but not a replacement for the same.

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Executive Summary

On Feb 23, 2022, the Aphelion Labs security team received a private request to review Arsenic Finance's Arsenic Coin (contract) on Avalanche C-Chain, developed the basic review plan according to the agreement of both parties and the characteristics of the project, and finally issued the review summary.

The address of the reviewed smart contract on Feb 23rd, 2022, was:

0x7Fa9507c54B4Aa11518859dF9928629Af62963DC

The objective of this screen audit was to:

- 1. General review of token and distribution.
- 2. Contract interaction, holders' analysis.



Audit Details

Project name Arsenic Coin

Review type Grade-C Basic Review

Deployer 0x44e1922a35e4902c26ddbb0ba23722277021b899

Client contact Project stakeholder

Blockchain Avalanche C-Chain

Audited by @arimanyus

Codebase Not provided



Contract Details

Token contract details as on February 23rd, 2022.

Contract name	Arsenic Coin
---------------	--------------

Contract address 0x7Fa9507c54B4Aa11518859dF9928629Af62963DC

Contract ticker AR

Total supply 13650785411764705881493

Client contact Project stakeholder

Decimals 18

Token holders 65

Transactions count 3613

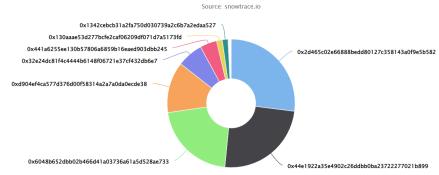
Liquidity Pool 4041.65 (~\$4600)

Blockchain Avalanche C-Chain



Token distribution





Contract interaction overview

- No details found -



Top 10 holders

Rank	Address	Quantity	Percentage	
1	© 0x2d465c02e66888bedd80127c358143a0f9e5b582	4,079.320026110085610627	27.1319%	<u>₩</u>
2	₫ 0x44e1922a35e4902c26ddbb0ba23722277021b899	3,698.822285108946162595	24.6011%	<u>~</u>
3	© 0x6048b652dbb02b466d41a03736a61a5d528ae733	3,159.634811333333333344	21.0150%	<u>~</u>
4	0xd904ef4ca577d376d00f58314a2a7a0da0ecde38	1,929	12.8299%	<u>~</u>
5	© 0x32e24dc8114c4444b6148f06721e37cf432db6e7	978.657725301308497919	6.5091%	<u>~</u>
6	0x441a6255ee130b57806a6859b16eaed903dbb245	639.560352941176470104	4.2538%	<u>~</u>
7	0x130aaae53d277bcfe2caf06209df071d7a5173fd	220.151875237339955295	1.4642%	<u>~</u>
8	0x1342cebcb31a2fa750d030739a2c6b7a2edaa527	215.70279782503697074	1.4347%	<u>~</u>
9	0x58b80ff10946cfda425c81f8619c6c1615a517b5	26.071707230378393764	0.1734%	<u>~</u>
10	0x62b077626927469e20dba4922c38a6e035068f9a	11.753538666666666666	0.0782%	<u>~</u>

Top 10 Holders' Analysis

Overview: none of the top 10 holders are blacklisted by Aphelion Labs or were found to have made any suspicious activities in the past.

Activity analysis: the nature of the top 10 accounts was found to be mostly organic and no suspicious activity in the past was observed.

Whale spotting: 4 wallets (individual wallets holding 1%+ of the total token supply) were found among the top token holders.

Score: 6/10



Contract Structure

```
**Achilles** | Implementation | Context, IERC20, Ownable |||
L | <Constructor> | Public | | * | NO | |
| L | name | Public ! | NO! |
L | symbol | Public ! | NO! |
L decimals Public | NO!
L totalSupply Public | NO!
| L | balanceOf | Public ! | NO! | | | |
| 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 | isExcludedFromReward | Public ! | NO! |
| L | totalFees | Public ! | NO! |
L totalBurn Public ! NO!
| L | deliver | Public | | * | NO | |
L reflectionFromToken Public | NO!
L tokenFromReflection | Public | NO |
| L | excludeFromReward | Public | | * | onlyOwner |
L includeInReward | External | * onlyOwner |
| L | _approve | Private 🔐 | * | |
| L | _transfer | Private 🔐 | * | |
| L | swapAndLiquify | Private 🔐 | * | lockTheSwap |
| L | swapTokensForEth | Private 🔐 | * | |
| L | addLiquidity | Private 🔐 | * | |
| └ | burnLpTokens | Private 🔐 | * | |
L | LpTokenBalance | Public | NO |
L withDrawLpTokens | Public | * onlyOwner |
| L | _tokenTransfer | Private 🔐 | * | |
| L | _transferStandard | Private 🔐 | * | |
| L | _transferToExcluded | Private 🔐 | * | |
| L | _transferFromExcluded | Private 🔐 | * | |
| L | _transferBothExcluded | Private 🔐 | * | |
| L | _reflectFee | Private 🔐 | * | |
| L | _getValues | Private 🔐 | | |
| L | _getTValues | Private 🔐 | | |
| L | _getRValues | Private 🔐 | | |
```



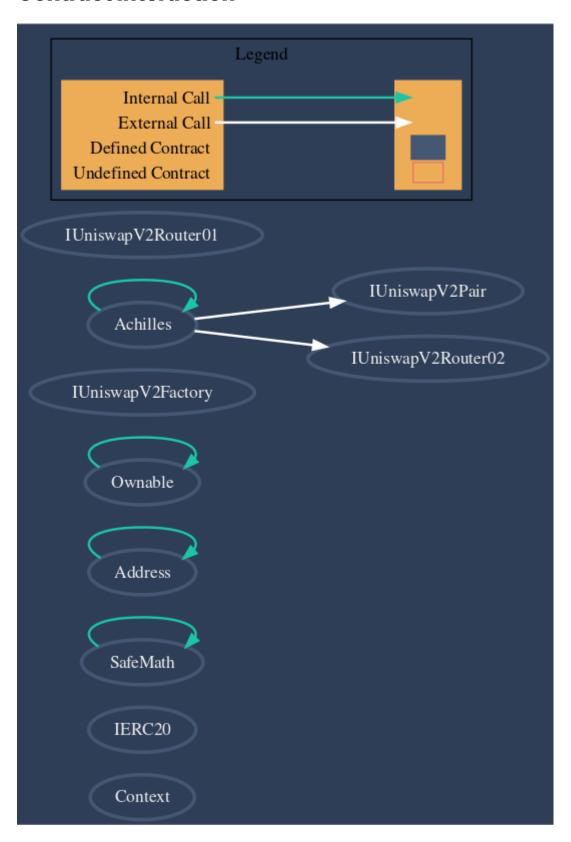
```
| L | _getRate | Private 🔐 | | |
| L | _getCurrentSupply | Private 🔐 | | |
| L | _takeLiquidity | Private 🔐 | * | |
| L | calculateTaxFee | Private 🔐 | | |
| L | calculateBurnFee | Private 🔐 | | |
| L | calculateLiquidityFee | Private 🔐 | | |
| L | removeAllFee | Private 🔐 | * | |
| L | restoreAllFee | Private 🔐 | * | |
L isExcludedFromFee | Public | NO!
| L | excludeFromFee | Public ! | * | onlyOwner | |
| L | includeInFee | Public ! | * | onlyOwner |
| L | setTaxFeePercent | External | | * | onlyOwner |
| L | setBurnFeePercent | External | | * | onlyOwner |
| L | setLiquidityFeePercent | External ! | * | onlyOwner |
| L | setLpRewardFromLiquidityPercent | External | | * | onlyOwner |
| L | setMaxTxPercent | External | | * | onlyOwner |
| L | setBurnLpTokenEnabled | External | | * | onlyOwner |
| L | setSwapAndLiquifyEnabled | Public | | * | onlyOwner |
| L | <Receive Ether> | External ! | $ |NO! |
```

Legend

```
Symbol | Meaning |
|:-----|
| * | Function can modify state |
| $ | Function is payable |
```



Contract Interaction





Issues Checking Summary

Contract Verification	Passed
RugCheck	Minor issues
Holders' Analysis	Passed
Liquidity Pool Check	Passed
Honeypot Check	Passed
Doxx Check	Not Doxxed
Contract Renunciation	Not Renounced
Fallback function security	Not in scope of review/audit
Exchange rate logic impact	Not in scope of review/audit
Variable check	Not in scope of review/audit
MythX	Not in scope of review/audit
Slyther	Not in scope of review/audit
Solhint	Not in scope of review/audit
Suspicious library check	Not in scope of review/audit



Issue(s) Analysis

1. High-severity issues

a. Contract Renunciation

The contract has not been renounced yet (23rd Feb, 2022), which means that the contract owner has rights to change the contract's functionality at any point of time.

Even thought there could be legitimate reasons as to why a project's dev team might not want to renounce contract (testing, deployment, etc), such contracts are generally not considered safe unless reasons behind not renouncing the contract are specifically mentioned.

Suggestion: A contract should be renounced for transparency and better trust with the community. If not, the reason should be specifically mentioned.

2. Medium-severity issues

a. RugCheck

Our team found multiple issues with RugCheck v1.0 on the contract:

- i. Mint Function missing.
- ii. Close similarity with other tokens on several EVM-compatible chains.
- iii. Creator wallet holds nearly a quarter of all supply.

3. Low-severity issues

a. Doxx Check

The identity of the team behind the contract is not known (known as doxing). A team may have legitimate reason not to disclose their identities. This does not have any impact on the code functionality whatsoever.



Conclusion

Aphelion Labs concludes the basic review of the contract.

Closing notes from Aphelion Labs: we do not make any warranties on the financial instruments associated with this project, neither do we "approve" or "reject" the codesustainability, quality of the contract or investment attractiveness.

धन्यवाद

thank you

exclamation

exclamation: thank you; exclamation: thankyou

a polite expression used when acknowledging a gift, service, or compliment, or accepting or refusing an offer.

"thank you for your letter"

noun

noun: thank you; plural noun: thank yous; noun: thankyou; plural noun: thanky

thank-you

an instance or means of expressing thanks.

"Lucy planned a party as a thank you to hospital staff"



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