



Smart Contract Security Audit Report

GABX FINANCE

July 2022

Security Status



www.hacksafe.io



Audit Details



Audited project

GABX FINANCE



Deployer address

0x12AB9742E86F5a4bacfcbB0cCD88fC4731a64bb5



Client contacts

GABX FINANCE team



Blockchain

Binance Smart Chain



Website

<https://www.gabxstake.com/>

Disclaimer

This is a limited report on our findings based on our analysis, in accordance with good industry practice as at the date of this report, in relation to cybersecurity vulnerabilities and issues in the framework and algorithms based on smart contracts, the details of which are set out in this report. In order to get a full view of our analysis, it is crucial for you to read the full report. While we have done our best in conducting our analysis and producing this report, it is important to note that you should not rely on this report and cannot claim against us on the basis of what it says or doesn't say, or how we produced it, and it is important for you to conduct your own independent investigations before making any decisions. We go into more detail on this in the below disclaimer below – please make sure to read it in full.

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The analysis of the security is purely based on the smart contracts alone. No applications or operations were reviewed for security. No product code has been reviewed.

Procedure

Step 1 - In-Depth Manual Review

Manual line-by-line code reviews to ensure the logic behind each function is sound and safe from various attack vectors. This is the most important and lengthy portion of the audit process (as automated tools often cannot find the nuances that lead to exploits such as flash loan attacks).

Step 2 - Automated Testing

Simulation of a variety of interactions with your Smart Contract on a test blockchain leveraging a combination of automated test tools and manual testing to determine if any security vulnerabilities exist.

Step 3 – Leadership Review

The engineers assigned to the audit will schedule meetings with our leadership team to review the contracts, any comments or findings, and ask questions to further apply adversarial thinking to discuss less common attack vectors.

Step 4 - Resolution of Issues

Consulting with the team to provide our recommendations to ensure the code's security and optimize its gas efficiency, if possible. We assist project team's in resolving any outstanding issues or implementing our recommendations.

Step 5 - Published Audit Report

Boiling down results and findings into an easy-to-read report tailored to the project. Our audit reports highlight resolved issues and any risks that exist to the project or its users, along with any remaining suggested remediation measures. Diagrams are included at the end of each report to help users understand the interactions which occur within the project.

Background

HackSafe was commissioned by GABX FINANCE to perform an audit of smart contracts:

- <https://bscscan.com/address/0xb165b50332022e90f3f1acf0da006280d8b3c9b5#code>

The purpose of the audit was to achieve the

- Ensure that the smart contract functions as intended.
- Identify potential security issues with the smart contract.

The information in this report should be understood to understand the risk exposure of the smart contract, and as a guide to improve the security posture of the smart contract by remediating the issues that were identified.

Contract Details

Token contract details for 20.07.2022

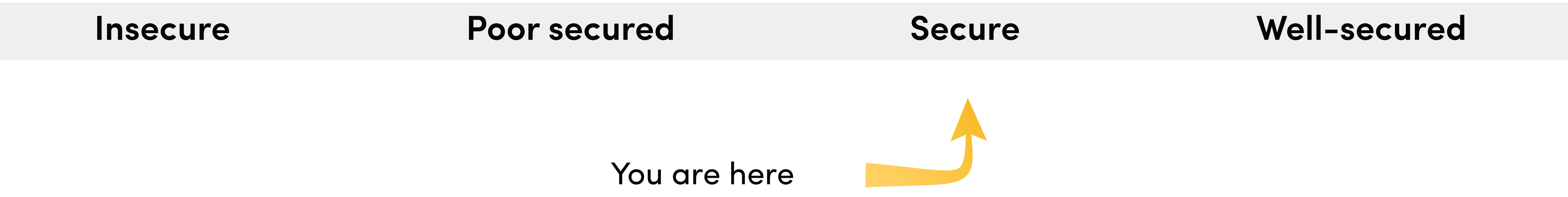
Token Type	: BEP20
Contract name	: GABX
Contract address	: 0xb165b50332022E90f3f1AcF0da006280D8B3c9b5
Compiler version	: v0.5.17+commit.d19bba13
Total supply	: 250,000,000
Token Ticker	: GABX
Decimals	: 8
Token Holders	: 2,408
Top 100 token holder's dominance	: 100.00 %
Transactions count	: 2,603
Contract deployer address	: 0x12AB9742E86F5a4bacfcbB0cCD88fC4731a64bb5
Owner address	: No owner

Social profiles

Twitter Profile	: https://twitter.com/gabxtoken
Facebook Profile	: https://www.facebook.com/GABX-TOKEN-110237628018295
Telegram Profile	: https://t.me/gabxtokenofficial
Coinmarketcap profile	: https://coinmarketcap.com/currencies/gabx-finance/

Audit Summary

According to the standard audit assessment, Customer`s solidity smart contracts are “Secure”. This token contract does not contain owner control, which do make it fully decentralized as owner does not have control over smart contract.



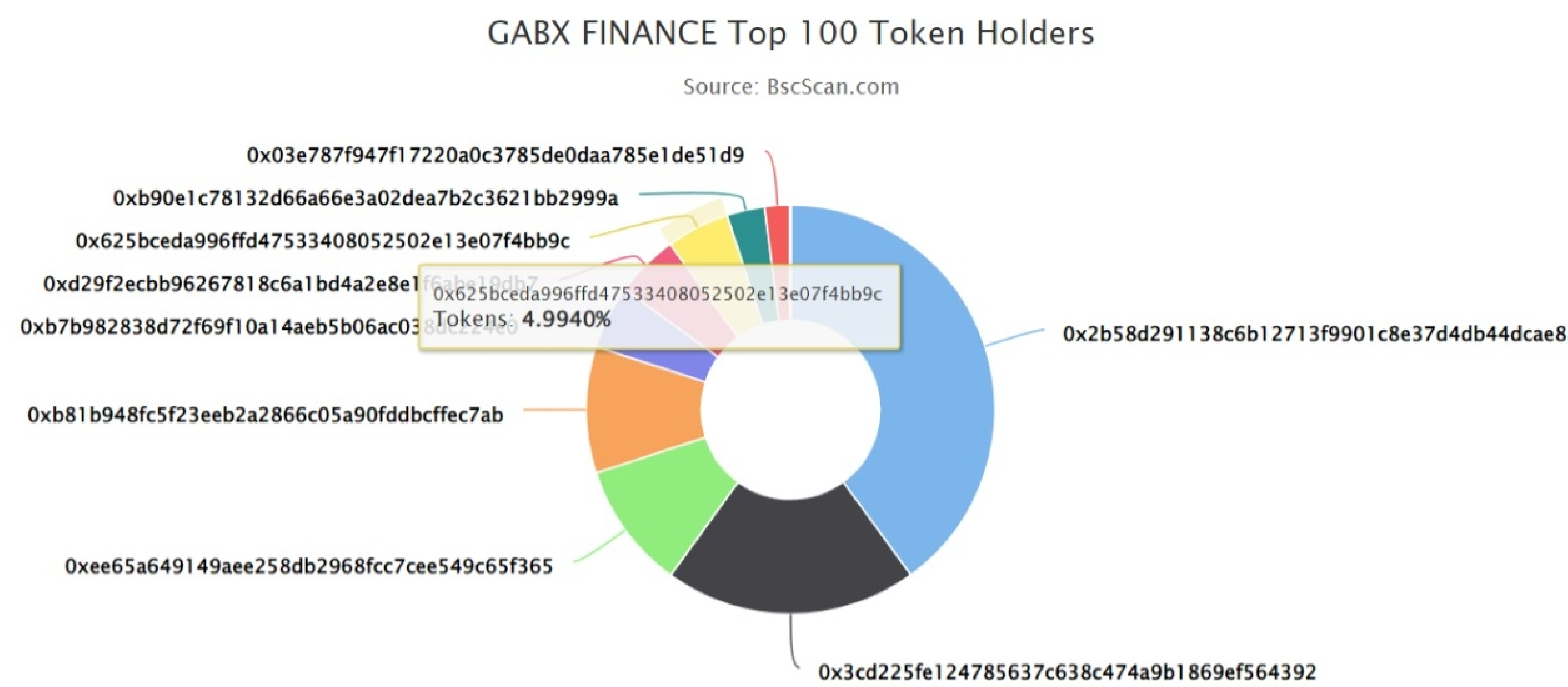
We used various tools like Slither, Mythril and Remix IDE. At the same time this finding is based on critical analysis of the manual audit. All issues found during automated analysis were manually reviewed and applicable vulnerabilities are presented in the issues checking status.

We found 0 critical, 0 high, 0 medium and 2 low and some very low-level issues. These

GABX Token Distribution

 The top 100 holders collectively own 100.00% (249,999,998.15 Tokens) of GABX FINANCE

 Token Total Supply: 250,000,000.00 Token | Total Token Holders: 2,408



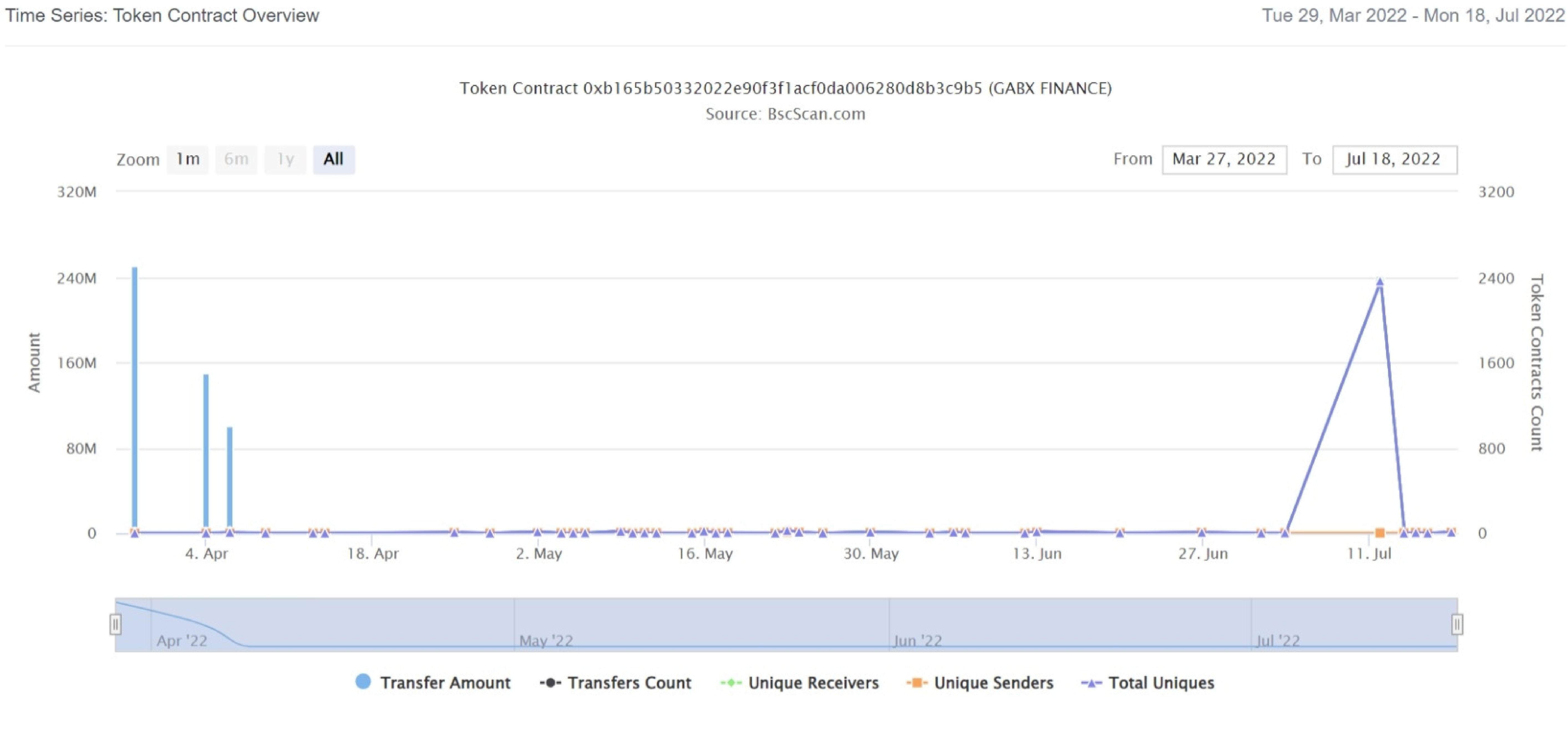
GABX Top 20 Token Holders

(A total of 249,999,998.15 tokens held by the top 100 accounts from the total supply of 250,000,000.00 token)

Rank	Address	Quantity (Token)	Percentage
1	0x2b58d291138c6b12713f9901c8e37d4db44dcae8	99,964,464	39.9858%
2	0x3cd225fe124785637c638c474a9b1869ef564392	50,000,000	20.0000%
3	0xee65a649149aee258db2968fcc7cee549c65f365	25,000,000	10.0000%
4	0xb81b948fc5f23eeb2a2866c05a90fddbcffec7ab	25,000,000	10.0000%
5	0xb7b982838d72f69f10a14aeb5b06ac038dc224e0	12,500,000	5.0000%
6	0xd29f2ecbb96267818c6a1bd4a2e8e1f6abe19db7	12,500,000	5.0000%
7	0x625bcda996ffd47533408052502e13e07f4bb9c	12,485,000	4.9940%
8	0xb90e1c78132d66a66e3a02dea7b2c3621bb2999a	7,500,000	3.0000%
9	0x03e787f947f17220a0c3785de0daa785e1de51d9	5,000,000	2.0000%
10	0x01b5f0c016fd3e92b8eb2ebebc131170bf419ed4	22,085.3	0.0088%
11	0x05aa6cd4f36319fec196d7cb68c1e888a1554fa3	9,900	0.0040%
12	0x04d1c1e4b8c0a499548024fd6fd67c2b2d92468b	4,878	0.0020%
13	0xaf01cabfd2c291e6539ed2672272495d50a361ce	3,903.23	0.0016%
14	0xc7093b54e7553dae5db172b6da5053f0a1acdfb3	1,750.0007854	0.0007%
15	0x05521eae077c51766615825674e8089f3560ceaf	1,252	0.0005%
16	0x0525abcdb04b85cd97a7476ae0003378820ddf0c	1,207.0007854	0.0005%
17	0x1a5218cb29a05838702eb49acf6b495d2cd789fc	1,140	0.0005%
18	0xae013e2b5e835d49ebf7e5b9c15c41daa0eb4df8	680.7	0.0003%
19	0x9a84b63f3e8c6b51f2fef34f7d62fb17a8045d34	632.6005642	0.0003%
20	0x071ba1b7473c194ea6b5661b4fc7822f1c24cba8	598	0.0002%

GABX Token Distribution

GABX Contract Overview



Contract functions details

+ [Int] IERC20

- [Ext] totalSupply
- [Ext] balanceOf
- [Ext] transfer
- [Ext] allowance
- [Ext] approve
- [Ext] transferFrom

+ [Lib] SafeMath

- [Int] add
- [Int] sub
- [Int] mul
- [Int] div
- [Int] mod

+ ERC20Detailed (IERC20)

- [Pub] <constructor>
- [Pub] name
- [Pub] symbol
- [Pub] decimals

+ ERC20 (IERC20)

- [Pub] totalSupply
- [Pub] balanceOf
- [Pub] transfer #
- [Pub] allowance
- [Pub] approve #
- [Pub] transferFrom #
- [Pub] increaseAllowance
- [Pub] decreaseAllowance
- [Int] _transfer #
- [Int] _mint#
- [Int] _approve #

+ GABX (ERC20, ERC20Detailed)

- [Pub] <constructor> #

(\$) = payable function

= non-constant function

Issues Checking Status

No.	Title	Status
1.	Unlocked Compiler Version	Low issue
2.	Missing Input Validation	Passed
3.	Race conditions and Reentrancy. Cross-function race conditions.	Passed
4.	Possible delays in data delivery	Passed
5.	Oracle calls.	Passed
6.	Timestamp dependence.	Passed
7.	Integer Overflow and Underflow	Passed
8.	DoS with Revert.	Passed
9.	DoS with block gas limit.	Passed
10.	Methods execution permissions.	Passed
11.	Economy model of the contract.	Passed
12.	Private use data leaks.	Passed
13.	Malicious Event log.	Passed
14.	Scoping and Declarations.	Passed
15.	Uninitialized storage pointers.	Passed
16.	Arithmetic accuracy.	Passed
17.	Design Logic.	Passed
18.	Safe Open Zeppelin contracts implementation and usage.	Passed
19.	Incorrect Naming State Variable	Passed
20.	Too old version	Low issue

Severity Definitions

Risk Level	Description
Critical	Critical vulnerabilities are usually straightforward to exploit and can lead to assets loss or data manipulations.
High	High-level vulnerabilities are difficult to exploit; however, they also have a significant impact on smart contract execution, e.g., public access to crucial functions
Medium	Medium-level vulnerabilities are important to fix; however, they can't lead to assets loss or data manipulations.
Low	Low-level vulnerabilities are mostly related to outdated, unused, etc. code snippets that can't have a significant impact on execution.

Security Issues

✔ Critical Severity Issues

No critical severity issue found.

✔ High Severity Issues

No high severity issue found.

✔ Medium Severity Issues

No medium severity issues found.

✔ Low Severity Issues

Two low severity issue found.

1. Unlocked Compiler Version.

- **Description**

The contract utilizes an unlocked compiler version. An unlocked compiler version in the contract's source code permits the user to compile it at or above a particular version. This, in turn, leads to differences in the generated bytecode between compilations due to differing compiler version numbers. This can lead to ambiguity when debugging as compiler-specific bugs may occur in the codebase that would be difficult to identify over a span of multiple compiler versions rather than a specific one.

- **Recommendation**

It is advisable that the compiler version is alternatively locked at the lowest version possible so that the contract can be compiled. For example, for version `^0.5.0` the contract should contain the following line:

```
pragma solidity 0.5.17;
```

2. Too old compiler version.

- **Description**

The contract has been deployed using too old compiler version.

- **Recommendation**

It is advisable to use any of the newest solidity compiler versions.

Conclusion

Smart contract contains low severity issues! The further transfer and operations with the fund raised are not related to this particular contract.

HackSafe note: Please check the disclaimer above and note, the audit makes no statements or warranties on business model, investment attractiveness or code sustainability. The report is provided for the only contract mentioned in the report and does not include any other potential contracts deployed by Owner.