

# CFG NINJA AUDITS

Security Assessment

**TURBO Token** 

July 21, 2023

Audit Status: Pass

Audit Edition: Advance



3LADE POOL



## **Risk Analysis**

## **Classifications of Manual Risk Results**

Classification	Description
Critical	Danger or Potential Problems.
Major	Be Careful or Fail test.
Minor	Pass, Not-Detected or Safe Item.
<ul><li>Informational</li></ul>	Function Detected

## **Manual Code Review Risk Results**

Contract Priviledge	Description
Buy Tax	0
Sale Tax	0
Cannot Sale	Pass
Cannot Sale	Pass
Max Tax	0
Modify Tax	Not Detected
Fee Check	Pass
■ Is Honeypot?	Not detected
Trading Cooldown	Not Detected
Can Pause Trade?	Pass
Pause Transfer?	Not Detected





Contract Priviledge	Description
Max Tx?	Pass
Is Anti Whale?	Not Detected
Is Anti Bot?	Not Detected
Is Blacklist?	Not Detected
Blacklist Check	Pass
is Whitelist?	Not Detected
Can Mint?	Pass
Is Proxy?	Not Detected
Can Take Ownership?	Not detected
Hidden Owner?	Not detected
<ul><li>Owner</li></ul>	0x9407B04C6822e95BC62f22a8B7525700329DBb8F
Self Destruct?	Not Detected
① Other?	Not detected
Other?	Not detected
<ul><li>Holders</li></ul>	1
Auditor Confidence	High

The following quick summary it's added to the project overview; however, there are more details about the audit and its results. Please read every detail.





## **Project Overview**

## **Token Summary**

Parameter	Result
Address	0x6A5432fE9a2150Dc16e6C7354Bc5B115609Fd71f
Name	TURBO
Token Tracker	TURBO (TURBO)
Decimals	18
Supply	1,000,000,000
Platform	Ethereum
compiler	v0.8.18+commit.87f61d96
Contract Name	TURBO
Optimization	Yes with 200 runs
LicenseType	MIT
Language	Solidity
Codebase	https://etherscan.io/address/0x6a5432fe9a2150dc16e6c7354b c5b115609fd71f#code
Payment Tx	0x01f50f9f9e135b8b988d648a2fba63f8cb597162bd5dc40d0 6696449b5782e6e





## Main Contract Assessed Contract Name

Name	Contract	Live
TURBO	0x6A5432fE9a2150Dc16e6C7354Bc5B115609Fd71f	Yes

## TestNet Contract Assessed Contract Name

Name	Contract	Live
TURBO	0x8E2E90beA808d28BE42F3CCe23A607358986847D	Yes

## **Solidity Code Provided**

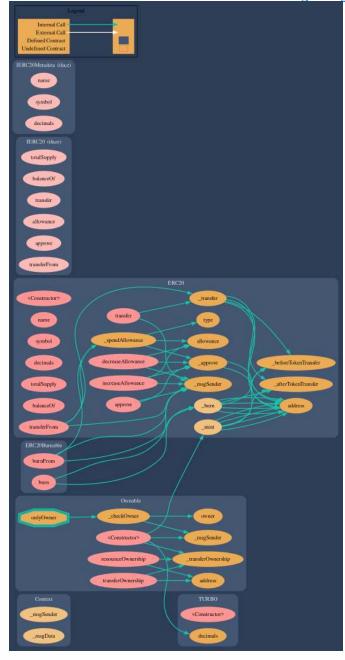
SoliD	File Sha-1	FileName
TURBO	20d68380df0d261564d94568526c86c2a25cf89	f TURBO.sol
TURBO		
TURBO		
TURBO		





## Call Graph

The contract for TURBO has the following call graph structure.







## Smart Contract Vulnerability Checks

The Smart Contract Weakness Classification Registry (SWC Registry) is an implementation of the weakness classification scheme proposed in EIP-1470. It is loosely aligned to the terminologies and structure used in the Common Weakness Enumeration (CWE) while overlaying a wide range of weakness variants that are specific to smart contracts.

ID	Severity	Name	File	location
SWC-100	Pass	Function Default Visibility	TURBO.sol	L: 0 C: 0
SWC-101	Pass	Integer Overflow and Underflow.	TURBO.sol	L: 0 C: 0
SWC-102	Pass	Outdated Compiler Version file.	TURBO.sol	L: 0 C: 0
SWC-103	Low	A floating pragma is set.	TURBO.sol	L: 116 C: 28, L: 147 C: 9, L: 220 C: 40, L: 312 C: 23, L: 331 C: 6, L: 672 C: 1491, L: 672 C: 2504
SWC-104	Pass	Unchecked Call Return Value.	TURBO.sol	L: 0 C: 0
SWC-105	Pass	Unprotected Ether Withdrawal.	TURBO.sol	L: 0 C: 0
SWC-106	Pass	Unprotected SELFDESTRUCT Instruction	TURBO.sol	L: 0 C: 0
SWC-107	Pass	Read of persistent state following external call.	TURBO.sol	L: 0 C: 0





ID	Severity	Name	File	location
SWC-108	Pass	State variable visibility is not set	TURBO.sol	L: 0 C: 0
SWC-109	Pass	Uninitialized Storage Pointer.	TURBO.sol	L: 0 C: 0
SWC-110	Pass	Assert Violation.	TURBO.sol	L: 0 C: 0
SWC-111	Pass	Use of Deprecated Solidity Functions.	TURBO.sol	L: 0 C: 0
SWC-112	Pass	Delegate Call to Untrusted Callee.	TURBO.sol	L: 0 C: 0
SWC-113	Pass	Multiple calls are executed in the same transaction.	TURBO.sol	L: 0 C: 0
SWC-114	Pass	Transaction Order Dependence.	TURBO.sol	L: 0 C: 0
SWC-115	Pass	Authorization through tx.origin.	TURBO.sol	L: 0 C: 0
SWC-116	Pass	A control flow decision is made based on The block.timestamp environment variable.	TURBO.sol	L: 0 C: 0
SWC-117	Pass	Signature Malleability.	TURBO.sol	L: 0 C: 0
SWC-118	Pass	Incorrect Constructor Name.	TURBO.sol	L: 0 C: 0
SWC-119	Pass	Shadowing State Variables.	TURBO.sol	L: 0 C: 0
SWC-120	Pass	Potential use of block.number as source of randonmness.	TURBO.sol	L: 0 C: 0
SWC-121	Pass	Missing Protection against Signature Replay Attacks.	TURBO.sol	L: 0 C: 0
SWC-122	Pass	Lack of Proper Signature Verification.	TURBO.sol	L: 0 C: 0





ID	Severity	Name	File	location
SWC-123	Pass	Requirement Violation.	TURBO.sol	L: 0 C: 0
SWC-124	Pass	Write to Arbitrary Storage Location.	TURBO.sol	L: 0 C: 0
SWC-125	Pass	Incorrect Inheritance Order.	TURBO.sol	L: 0 C: 0
SWC-126	Pass	Insufficient Gas Griefing.	TURBO.sol	L: 0 C: 0
SWC-127	Pass	Arbitrary Jump with Function Type Variable.	TURBO.sol	L: 0 C: 0
SWC-128	Pass	DoS With Block Gas Limit.	TURBO.sol	L: 0 C: 0
SWC-129	Pass	Typographical Error.	TURBO.sol	L: 0 C: 0
SWC-130	Pass	Right-To-Left-Override control character (U +202E).	TURBO.sol	L: 0 C: 0
SWC-131	Pass	Presence of unused variables.	TURBO.sol	L: 0 C: 0
SWC-132	Pass	Unexpected Ether balance.	TURBO.sol	L: 0 C: 0
SWC-133	Pass	Hash Collisions with Multiple Variable Length Arguments.	TURBO.sol	L: 0 C: 0
SWC-134	Pass	Message call with hardcoded gas amount.	TURBO.sol	L: 0 C: 0
SWC-135	Pass	Code With No Effects (Irrelevant/Dead Code).	TURBO.sol	L: 0 C: 0
SWC-136	Pass	Unencrypted Private Data On-Chain.	TURBO.sol	L: 0 C: 0

We scan the contract for additional security issues using MYTHX and industry-standard security scanning tools.





## Smart Contract Vulnerability Details

SWC-103 - Floating Pragma.

CWE-664: Improper Control of a Resource Throu	gh its
Lifetime.	

**References:** 

## **Description:**

Contracts should be deployed with the same compiler version and flags that they have been tested with thoroughly. Locking the pragma helps to ensure that contracts do not accidentally get deployed using, for example, an outdated compiler version that might introduce bugs that affect the contract system negatively.

#### Remediation:

Lock the pragma version and also consider known bugs (https://github.com/ethereum/solidity/releases) for the compiler version that is chosen.

Pragma statements can be allowed to float when a contract is intended for consumption by other developers, as in the case with contracts in a library or EthPM package. Otherwise, the developer would need to manually update the pragma in order to compile locally.

#### **References:**

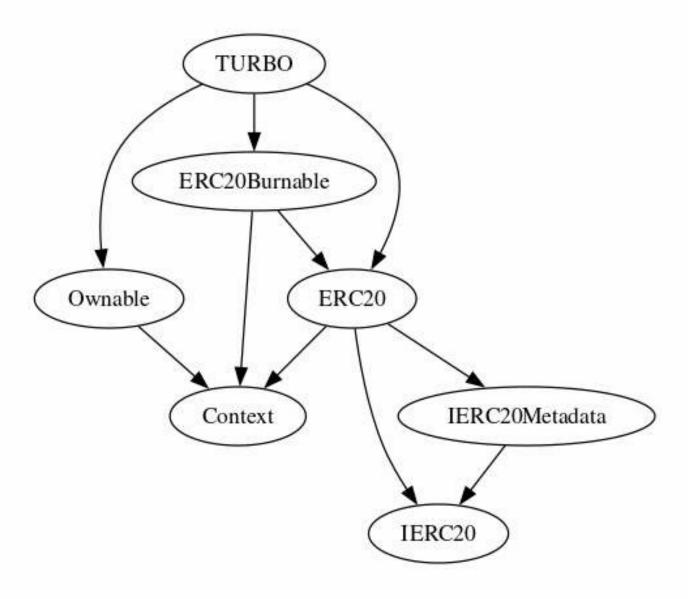
Ethereum Smart Contract Best Practices - Lock pragmas to specific compiler version.





## **Inheritance**

The contract for TURBO has the following inheritance structure.





## **Smart Contract Advance Checks**

ID	Severity	Name	Result	Status
TURBO-01	Minor	Potential Sandwich Attacks.	Pass	Not-Found
TURBO-02	Minor	Function Visibility Optimization	Pass	Not-Detected
TURBO-03	Minor	Lack of Input Validation.	Pass	Not-Detected
TURBO-04	Major	Centralized Risk In addLiquidity.	Pass	Not-Detected
TURBO-05	Minor	Missing Event Emission.	Pass	Not-Detected
TURBO-06	Minor	Conformance with Solidity Naming Conventions.	Pass	Not-Detected
TURBO-07	Minor	State Variables could be Declared Constant.	Pass	Not-Found
TURBO-08	Minor	Dead Code Elimination.	Pass	Not-Found
TURBO-09	Major	Third Party Dependencies.	Pass	Not-Found
TURBO-10	Major	Initial Token Distribution.	Pass	Not-Found
TURBO-11	Minor	Multisend is present in code.	Pass	Not-Detected
TURBO-12	Major	Centralization Risks In The X Role	Pass	Not-Found
TURBO-13	Informational	Extra Gas Cost For User	Pass	Not-Found
TURBO-6	Medium	Unnecessary Use Of SafeMath	Pass	Not-Found
TURBO-15	Medium	Symbol Length Limitation due to Solidity Naming Standards.	Pass	Not-Found





ID	Severity	Name	Result	Status
TURBO-16	Medium	Invalid collection of Taxes during Transfer.	Pass	Not-Found
TURBO-17	Informational	Conformance to numeric notation best practice.	Pass	Not-Found
TURBO-18	Medium	Stop Transactions by using Enable Trade.	Pass	Not-Detected





## Technical Findings Summary

### **Classification of Risk**

Severity	Description	
Critical	Risks are those that impact the safe functioning of a platform and must be addressed before launch. Users should not invest in any project with outstanding critical risks.	
Major	Risks can include centralization issues and logical errors. Under specific circumstances, these major risks can lead to loss of funds and/or control of the project.	
<ul><li>Medium</li></ul>	Risks may not pose a direct risk to users' funds, but they can affect the overall functioning of a platform	
Minor	Risks can be any of the above but on a smaller scale. They generally do not compromise the overall integrity of the Project, but they may be less efficient than other solutions.	
<ul><li>Informational</li></ul>	Errors are often recommended to improve the code's style or certain operations to fall within industry best practices. They usually do not affect the overall functioning of the code.	

## **Findings**

Severity	Found	Pending	Resolved
Critical	0	0	0
Major	0	0	0
Medium	0	0	0
Minor	0	0	0
<ul><li>Informational</li></ul>	0	0	0
Total	0	0	0





## **Social Media Checks**

Social Media	URL	Result
Twitter	https://twitter.com/srs_simulator	Pass
Other	@srs_turboChannel	Pass
Website	srs.zone	Pass
Telegram	@srs_turbo	Pass

We recommend to have 3 or more social media sources including a completed working websites.

**Social Media Information Notes:** 

**Auditor Notes: undefined** 

**Project Owner Notes:** 







## **Assessment Results**

#### **Score Results**

Review	Score
Overall Score	92/100
Auditor Score	88/100
Review by Section	Score
Manual Scan Score	36/53
SWC Scan Score	36/37
Advance Check Score	20 /19

The Following Score System Has been Added to this page to help understand the value of the audit, the maximun score is 100, however to attain that value the project most pass and provide all the data needed for the assessment. Our Passing Score has been changed to 80 Points, if a project does not attain 80% is an automatic failure. Read our notes and final assessment below.

## **Audit Passed**







## **Assessment Results**

## **Important Notes:**

- Contract has no taxes.
- Owner can't set max tx amount.
- No high-risk Exploits/Vulnerabilities Were Found in the Source Code.

## Auditor Score =88 Audit Passed







## **Appendix**

## **Finding Categories**

#### **Centralization / Privilege**

Centralization / Privilege findings refer to either feature logic or implementation of components that actagainst the nature of decentralization, such as explicit ownership or specialized access roles incombination with a mechanism to relocate funds.

#### **Gas Optimization**

Gas Optimization findings do not affect the functionality of the code but generate different, more optimalEVM opcodes resulting in a reduction on the total gas cost of a transaction.

#### **Logical Issue**

Logical Issue findings detail a fault in the logic of the linked code, such as an incorrect notion on howblock.timestamp works.

#### **Control Flow**

Control Flow findings concern the access control imposed on functions, such as owneronly functionsbeing invoke-able by anyone under certain circumstances.

#### **Volatile Code**

Volatile Code findings refer to segments of code that behave unexpectedly on certain edge cases that mayresult in a vulnerability.

#### **Coding Style**

Coding Style findings usually do not affect the generated byte-code but rather comment on how to makethe codebase more legible and, as a result, easily maintainable.

#### **Inconsistency**

Inconsistency findings refer to functions that should seemingly behave similarly yet contain different code, such as a constructor assignment imposing different require statements on the input variables than a setterfunction.

#### **Coding Best Practices**

ERC 20 Conding Standards are a set of rules that each developer should follow to ensure the code meet a set of creterias and is readable by all the developers.





### Disclaimer

CFGNINJA has conducted an independent security assessment to verify the integrity of and highlight any vulnerabilities or errors, intentional or unintentional, that may be present in the reviewed code for the scope of this assessment. This report does not constitute agreement, acceptance, or advocation for the Project, and users relying on this report should not consider this as having any merit for financial advice in any shape, form, or nature. The contracts audited do not account for any economic developments that the Project in question may pursue, and the veracity of the findings thus presented in this report relate solely to the proficiency, competence, aptitude, and discretion of our independent auditors, who make no guarantees nor assurance that the contracts are entirely free of exploits, bugs, vulnerabilities or deprecation of technologies.

All information provided in this report does not constitute financial or investment advice, nor should it be used to signal that any persons reading this report should invest their funds without sufficient individual due diligence, regardless of the findings presented. Information is provided 'as is, and CFGNINJA is under no covenant to audited completeness, accuracy, or solidity of the contracts. In no event will CFGNINJA or its partners, employees, agents, or parties related to the provision of this audit report be liable to any parties for, or lack thereof, decisions or actions with regards to the information provided in this audit report.

The assessment services provided by CFGNINJA are subject to dependencies and are under continuing development. You agree that your access or use, including but not limited to any services, reports, and materials, will be at your sole risk on an as-is, where-is, and as-available basis. Cryptographic tokens are emergent technologies with high levels of technical risk and uncertainty. The assessment reports could include false positives, negatives, and unpredictable results. The services may access, and depend upon, multiple layers of third parties.



