



# Pleasure Coin Smart Contract Audit Report

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# AUDITED DETAILS

## Audited Project

Project name	Token ticker	Blockchain
Pleasure Coin	NSFW	Binance Smart Chain

## Addresses

Contract address	0xaa076b62efc6f357882e07665157a271ab46a063
Contract deployer address	0x129F027a491D96aBCeD68cC30976797a42987303

## Project Website

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

## Codebase

<https://bscscan.com/address/0xaa076b62efc6f357882e07665157a271ab46a063#code>

# SUMMARY

Pleasure Coin (NSFW) is an ERC-20 token on the Polygon chain that will be utilized within the Pleasure Network, an adult industry ecosystem that empowers individuals and businesses.

## Contract Summary

### Documentation Quality

Pleasure Coin provides a very good documentation with standard of solidity base code.

- The technical description is provided clearly and structured and also don't have any high risk issue.

### Code Quality

The Overall quality of the basecode is standard.

- Standard solidity basecode and rules are already followed by Pleasure Coin with the discovery of several low issues.

### Test Coverage

Test coverage of the project is 100% ( Through Codebase )

## Audit Findings Summary

- SWC-101 | It is recommended to use vetted safe math libraries for arithmetic operations consistently on lines 310, 329, 351, 384, 386, 407, 408, 433 and 435.
- SWC-103 | Pragma statements can be allowed to float when a contract is intended on lines 13, 98, 128, 155, 512 and 536.

## CONCLUSION

We have audited the NamaFile project released on January 2023 to discover issues and identify potential security vulnerabilities in NamaFile Project. This process is used to find technical issues and security loopholes which might be found in the smart contract.

The security audit report provides satisfactory results with low-risk issues.

The issues found in the NamaFile smart contract code do not pose a considerable risk. The writing of the contract is close to the standard of writing contracts in general. The low-risk issues found in floating pragma are set. Specifying a fixed compiler version is recommended to ensure that the bytecode produced does not vary between builds. This is especially important if you rely on bytecode-level verification of the code.

# AUDIT RESULT

Article	Category	Description	Result
Default Visibility	SWC-100 SWC-108	Functions and state variables visibility should be set explicitly. Visibility levels should be specified consciously.	PASS
Integer Overflow and Underflow	SWC-101	If unchecked math is used, all math operations should be safe from overflows and underflows.	ISSUE FOUND
Outdated Compiler Version	SWC-102	It is recommended to use a recent version of the Solidity compiler.	PASS
Floating Pragma	SWC-103	Contracts should be deployed with the same compiler version and flags that they have been tested thoroughly.	ISSUE FOUND
Unchecked Call Return Value	SWC-104	The return value of a message call should be checked.	PASS
Unprotected Ether Withdrawal	SWC-105	Due to missing or insufficient access controls, malicious parties can withdraw from the contract.	PASS
SELFDESTRUCT Instruction	SWC-106	The contract should not be self-destructible while it has funds belonging to users.	PASS
Reentrancy	SWC-107	Check effect interaction pattern should be followed if the code performs recursive call.	PASS
Uninitialized Storage Pointer	SWC-109	Uninitialized local storage variables can point to unexpected storage locations in the contract.	PASS
Assert Violation	SWC-110 SWC-123	Properly functioning code should never reach a failing assert statement.	PASS
Deprecated Solidity Functions	SWC-111	Deprecated built-in functions should never be used.	PASS
Delegate call to Untrusted Callee	SWC-112	Delegatecalls should only be allowed to trusted addresses.	PASS

DoS (Denial of Service)	SWC-113 SWC-128	Execution of the code should never be blocked by a specific contract state unless required.	PASS
Race Conditions	SWC-114	Race Conditions and Transactions Order Dependency should not be possible.	PASS
Authorization through tx.origin	SWC-115	tx.origin should not be used for authorization.	PASS
Block values as a proxy for time	SWC-116	Block numbers should not be used for time calculations.	PASS
Signature Unique ID	SWC-117 SWC-121 SWC-122	Signed messages should always have a unique id. A transaction hash should not be used as a unique id.	PASS
Incorrect Constructor Name	SWC-118	Constructors are special functions that are called only once during the contract creation.	PASS
Shadowing State Variable	SWC-119	State variables should not be shadowed.	PASS
Weak Sources of Randomness	SWC-120	Random values should never be generated from Chain Attributes or be predictable.	PASS
Write to Arbitrary Storage Location	SWC-124	The contract is responsible for ensuring that only authorized user or contract accounts may write to sensitive storage locations.	PASS
Incorrect Inheritance Order	SWC-125	When inheriting multiple contracts, especially if they have identical functions, a developer should carefully specify inheritance in the correct order. The rule of thumb is to inherit contracts from more /general/ to more /specific/.	PASS
Insufficient Gas Griefing	SWC-126	Insufficient gas grieving attacks can be performed on contracts which accept data and use it in a sub-call on another contract.	PASS
Arbitrary Jump Function	SWC-127	As Solidity doesnt support pointer arithmetics, it is impossible to change such variable to an arbitrary value.	PASS

Typographical Error	SWC-129	A typographical error can occur for example when the intent of a defined operation is to sum a number to a variable.	PASS
Override control character	SWC-130	Malicious actors can use the Right-To-Left-Override unicode character to force RTL text rendering and confuse users as to the real intent of a contract.	PASS
Unused variables	SWC-131 SWC-135	Unused variables are allowed in Solidity and they do not pose a direct security issue.	PASS
Unexpected Ether balance	SWC-132	Contracts can behave erroneously when they strictly assume a specific Ether balance.	PASS
Hash Collisions Variable	SWC-133	Using abi.encodePacked() with multiple variable length arguments can, in certain situations, lead to a hash collision.	PASS
Hardcoded gas amount	SWC-134	The transfer() and send() functions forward a fixed amount of 2300 gas.	PASS
Unencrypted Private Data	SWC-136	It is a common misconception that private type variables cannot be read.	PASS

# SMART CONTRACT ANALYSIS

Started	Tuesday Jan 24 2023 02:15:24 GMT+0000 (Coordinated Universal Time)
Finished	Wednesday Jan 25 2023 09:48:17 GMT+0000 (Coordinated Universal Time)
Mode	Standard
Main Source File	StandardERC20.sol

## Detected Issues

[illegible]

SWC-103	A FLOATING PRAGMA IS SET.	low	acknowledged
---------	---------------------------	-----	--------------

# SWC-101 | ARITHMETIC OPERATION "-" DISCOVERED

LINE 310

## low SEVERITY

This plugin produces issues to support false positive discovery within mythril.

## Source File

- StandardERC20.sol

## Locations

```
309     unchecked {  
310         _approve(sender, _msgSender(), currentAllowance - amount);  
311     }  
312  
313     return true;  
314
```

# SWC-101 | ARITHMETIC OPERATION "+" DISCOVERED

LINE 329

## low SEVERITY

This plugin produces issues to support false positive discovery within mythril.

## Source File

- StandardERC20.sol

## Locations

```
328     function increaseAllowance(address spender, uint256 addedValue) public virtual
returns (bool) {
329     _approve(_msgSender(), spender, _allowances[_msgSender()][spender] + addedValue);
330     return true;
331 }
332
333
```

# SWC-101 | ARITHMETIC OPERATION "-" DISCOVERED

LINE 351

## low SEVERITY

This plugin produces issues to support false positive discovery within mythril.

## Source File

- StandardERC20.sol

## Locations

```
350     unchecked {  
351         _approve(_msgSender(), spender, currentAllowance - subtractedValue);  
352     }  
353  
354     return true;  
355
```

## SWC-101 | ARITHMETIC OPERATION "-" DISCOVERED

LINE 384

### low SEVERITY

This plugin produces issues to support false positive discovery within mythril.

### Source File

- StandardERC20.sol

### Locations

```
383     unchecked {  
384         _balances[sender] = senderBalance - amount;  
385     }  
386     _balances[recipient] += amount;  
387  
388
```

# SWC-101 | ARITHMETIC OPERATION "+=" DISCOVERED

LINE 386

## low SEVERITY

This plugin produces issues to support false positive discovery within mythril.

## Source File

- StandardERC20.sol

## Locations

```
385     }  
386     _balances[recipient] += amount;  
387  
388     emit Transfer(sender, recipient, amount);  
389  
390
```

## SWC-101 | ARITHMETIC OPERATION "+=" DISCOVERED

LINE 407

### low SEVERITY

This plugin produces issues to support false positive discovery within mythril.

### Source File

- StandardERC20.sol

### Locations

```
406
407  _totalSupply += amount;
408  _balances[account] += amount;
409  emit Transfer(address(0), account, amount);
410
411
```

# SWC-101 | ARITHMETIC OPERATION "+=" DISCOVERED

LINE 408

## low SEVERITY

This plugin produces issues to support false positive discovery within mythril.

## Source File

- StandardERC20.sol

## Locations

```
407     _totalSupply += amount;  
408     _balances[account] += amount;  
409     emit Transfer(address(0), account, amount);  
410  
411     _afterTokenTransfer(address(0), account, amount);  
412
```

# SWC-101 | ARITHMETIC OPERATION "-" DISCOVERED

LINE 433

## low SEVERITY

This plugin produces issues to support false positive discovery within mythril.

## Source File

- StandardERC20.sol

## Locations

```
432     unchecked {  
433         _balances[account] = accountBalance - amount;  
434     }  
435     _totalSupply -= amount;  
436  
437
```

## SWC-101 | ARITHMETIC OPERATION "-=" DISCOVERED

LINE 435

### low SEVERITY

This plugin produces issues to support false positive discovery within mythril.

### Source File

- StandardERC20.sol

### Locations

```
434     }  
435     _totalSupply -= amount;  
436  
437     emit Transfer(account, address(0), amount);  
438  
439
```

## SWC-103 | A FLOATING PRAGMA IS SET.

LINE 13

### low SEVERITY

The current pragma Solidity directive is `""^0.8.0""`. It is recommended to specify a fixed compiler version to ensure that the bytecode produced does not vary between builds. This is especially important if you rely on bytecode-level verification of the code.

### Source File

- StandardERC20.sol

### Locations

```
12
13  pragma solidity ^0.8.0;
14
15  /**
16   * @dev Interface of the ERC20 standard as defined in the EIP.
17
```

## SWC-103 | A FLOATING PRAGMA IS SET.

LINE 98

### low SEVERITY

The current pragma Solidity directive is `""^0.8.0""`. It is recommended to specify a fixed compiler version to ensure that the bytecode produced does not vary between builds. This is especially important if you rely on bytecode-level verification of the code.

### Source File

- StandardERC20.sol

### Locations

```
97
98  pragma solidity ^0.8.0;
99
100
101  /**
102
```

## SWC-103 | A FLOATING PRAGMA IS SET.

LINE 128

### low SEVERITY

The current pragma Solidity directive is `""^0.8.0""`. It is recommended to specify a fixed compiler version to ensure that the bytecode produced does not vary between builds. This is especially important if you rely on bytecode-level verification of the code.

### Source File

- StandardERC20.sol

### Locations

```
127
128  pragma solidity ^0.8.0;
129
130  /**
131   * @dev Provides information about the current execution context, including the
132
```

## SWC-103 | A FLOATING PRAGMA IS SET.

LINE 155

### low SEVERITY

The current pragma Solidity directive is `""^0.8.0""`. It is recommended to specify a fixed compiler version to ensure that the bytecode produced does not vary between builds. This is especially important if you rely on bytecode-level verification of the code.

### Source File

- StandardERC20.sol

### Locations

```
154
155  pragma solidity ^0.8.0;
156
157
158
159
```

## SWC-103 | A FLOATING PRAGMA IS SET.

LINE 512

### low SEVERITY

The current pragma Solidity directive is `""^0.8.0""`. It is recommended to specify a fixed compiler version to ensure that the bytecode produced does not vary between builds. This is especially important if you rely on bytecode-level verification of the code.

### Source File

- StandardERC20.sol

### Locations

```
511
512  pragma solidity ^0.8.0;
513
514
515  /**
516
```

## SWC-103 | A FLOATING PRAGMA IS SET.

LINE 536

### low SEVERITY

The current pragma Solidity directive is `""^0.8.0""`. It is recommended to specify a fixed compiler version to ensure that the bytecode produced does not vary between builds. This is especially important if you rely on bytecode-level verification of the code.

### Source File

- StandardERC20.sol

### Locations

```
535 // File: contracts/token/ERC20/StandardERC20.sol
536 pragma solidity ^0.8.0;
537
538 /**
539  * @title StandardERC20
540
```

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This is a limited report on our findings based on our analysis, in accordance with good industry practice as of 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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