



SMART CONTRACT CODE REVIEW AND SECURITY ANALYSIS REPORT



Grinch Stole Christmas
\$GRINCH

21/12/2023

TOKEN OVERVIEW

Fees

- Buy fees: 3%
- Sell fees: 3%

Fees privileges

- Can't change fees

Ownership

- Owned

Minting

- No mint function

Max Tx Amount / Max Wallet Amount

- Can't change max tx amount and / or max wallet amount

Blacklist

- Blacklist function not detected

Other privileges

- Can exclude / include from fees
 - Contract owner has to call enableTrading function to enable trade
-

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TECHNICAL DISCLAIMER



DISCLAIMER

The information provided on this analysis document is only for general information and should not be used as a reason to invest.

FreshCoins Team will take no payment for manipulating the results of this audit.

The score and the result will stay on this project page information on our website <https://freshcoins.io>

FreshCoins Team does not guarantees that a project will not sell off team supply, or any other scam strategy (RUG or Honeypot etc)



INTRODUCTION

FreshCoins (Consultant) was contracted by **Grinch Stole Christmas** (Customer) to conduct a Smart Contract Code Review and Security Analysis.

0x09F8E935f3190805D82A719aD4bdA46d71AAB154

Network: **Binance Smart Chain (BSC)**

This report presents the findings of the security assessment of Customer's smart contract and its code review conducted on **21/12/2023**



WEBSITE DIAGNOSTIC

<https://grinchmeme.xyz/>



0-49



50-89



90-100



Performance



Accessibility



Best
Practices



SEO



Progressive
Web App

Socials



Twitter

<https://twitter.com/GrinchBSCcoin>



Telegram

<https://t.me/GrinchBSCcoin>

AUDIT OVERVIEW



Security Score



Static Scan

Automatic scanning for common vulnerabilities



ERC Scan

Automatic checks for ERC's conformance



High



Medium



Low



Optimizations



Informational



No.	Issue description	Checking Status
1	Compiler Errors / Warnings	Passed
2	Reentrancy and Cross-function	Passed
3	Front running	Passed
4	Timestamp dependence	Passed
5	Integer Overflow and Underflow	Passed
6	Reverted DoS	Passed
7	DoS with block gas limit	Low
8	Methods execution permissions	Passed
9	Exchange rate impact	Passed
10	Malicious Event	Passed
11	Scoping and Declarations	Passed
12	Uninitialized storage pointers	Passed
13	Design Logic	Passed
14	Safe Zeppelin module	Passed

OWNER PRIVILEGES

- **Contract owner can't mint tokens after initial contract deploy**
- **Contract owner can't exclude an address from transactions**
- **Contract owner can exclude/include wallet from tax**

```
function setNoFeeWallet(address account, bool enabled) public onlyOwner {
    _noFee[account] = enabled;
}
```

- **Contract owner can whitelist wallet address**

```
function setPresaleAddress(address presale, bool yesno) external onlyOwner {
    require(isPresaleAddress[presale] != yesno, "Same bool");
    isPresaleAddress[presale] = yesno;
    _noFee[presale] = yesno;
    liquidityAdd[presale] = yesno;
    emit _setPresaleAddress(presale, yesno);
}
```

- **Contract owner has to call `enableTrading` function to enable trade**

Please note that any wallet whitelisted or owner wallet retains the ability to engage in trading, even in situations where trading has been disabled

```
function enableTrading() external onlyOwner {
    require(!isTradingEnabled, "Trading already enabled");
    isTradingEnabled = true;
    emit _enableTrading();
}
```

_transferFrom function line 321

```
.
.
.
if (isLimitedAddress(from,to)) {
    require(isTradingEnabled, "Trading is not enabled");
}
.
.
.
```

- **Contract owner can change swap settings**

```
function toggleCanSwapFees(bool yesno) external onlyOwner {
    require(canSwapFees != yesno, "Bool is the same");
    canSwapFees = yesno;
    emit _toggleCanSwapFees(yesno);
}
```

● Contract owner can change **marketingAddress** and **devWallet** addresses

Default values:

marketingAddress: 0xB764B5d1Dc51D52137C99Ba2c068FDC0b428F29A

devWallet: 0xeB965b5bFA0001E39A342A39b36cb6Ce8ecC7abC

```
function changeWallets(address newBuy, address newDev) external onlyOwner {
    require(newBuy != address(0), "Freddy: Address Zero");
    require(newDev != address(0), "Freddy: Address Zero");
    marketingAddress = payable(newBuy);
    devWallet = payable(newDev);
    emit _changeWallets(newBuy, newDev);
}
```

● Contract owner can transfer ownership

```
function transferOwnership(address newOwner) public virtual onlyOwner {
    require(newOwner != address(0), "Ownable: new owner is the zero address");
    _setOwner(newOwner);
}

function _setOwner(address newOwner) private {
    address oldOwner = _owner;
    _owner = newOwner;
    emit OwnershipTransferred(oldOwner, newOwner);
}
```

● Contract owner can renounce ownership

```
function renounceOwnership() public virtual onlyOwner {
    _setOwner(address(0));
}
```

Recommendation:

The team should carefully manage the private keys of the owner's account. We strongly recommend a powerful security mechanism that will prevent a single user from accessing the contract admin functions. The risk can be prevented by temporarily locking the contract or renouncing ownership.



CONCLUSION AND ANALYSIS



Smart Contracts within the scope were manually reviewed and analyzed with static tools.



Audit report overview contains all found security vulnerabilities and other issues in the reviewed code.



Found 1 HIGH issues during the first review.

TOKEN DETAILS

Details

Buy fees: 3%

Sell fees: 3%

Max TX: N/A

Max Sell: N/A

Honeypot Risk

Ownership: Owned

Blacklist: Not detected

Modify Max TX: Not detected

Modify Max Sell: Not detected

Disable Trading: Not detected

Rug Pull Risk

Liquidity: N/A

Holders: Clean



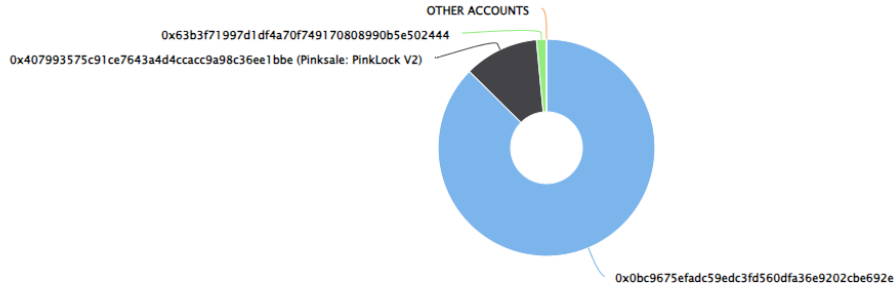
GRINCH TOKEN ANALYTICS & TOP 10 TOKEN HOLDERS

The top 10 holders collectively own 100.00%
(450,000,000,000.00 Tokens) of Grinch Stole Christmas

Token Total Supply: 450,000,000,000.00 Token | Total Token Holders: 3

Grinch Stole Christmas Top 10 Token Holders

Source: BscScan.com



(A total of 450,000,000,000.00 tokens held by the top 10 accounts from the total supply of 450,000,000,000.00 token)

Rank	Address	Quantity (Token)	Percentage
1	0x0bc967...2CBe692e	393,392,500,000	87.4206%
2	Pinksale: PinkLock V2	50,000,000,000	11.1111%
3	0x63b3F7...5e502444	6,607,500,000	1.4683%

TECHNICAL DISCLAIMER

Smart contracts are deployed and executed on the blockchain platform. The platform, its programming language, and other software related to the smart contract can have its vulnerabilities that can lead to hacks. The audit can't guarantee the explicit security of the audited project / smart contract.

