



# OXSCANS

## PROJECT ADDRESS

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# AUDIT REPORT

**SAFETY SCORE: 84**

## 1 - Arbitrary Jump/Storage Write

**Result: Pass**

## 2 - Centralization of Control

**Result: Medium**

Details: The contract contains functions that centralize control, such as `renounceOwnership`, `transferOwnership`, and `flagBot`. The `renounceOwnership` function allows the owner to renounce their ownership, which could lead to a loss of control over the contract. The `transferOwnership` function allows the owner to transfer control to a new address. The `flagBot` function allows the owner to flag addresses as bots, which could be misused to flag honest users.

### Code:

```
function renounceOwnership(bool confirmRenounce) external virtual onlyOwner {
    require(confirmRenounce, "Please confirm renounce!");
    emit OwnershipTransferred(_owner, address(0));
    _owner = address(0);
}

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

function flagBot(address wallet) external onlyOwner {
    require(!flaggedAsBot[wallet], "Wallet is already flagged.");
    flaggedAsBot[wallet] = true;
}
```

### Correction:

```
// No correction needed for renounceOwnership and transferOwnership as they are common patterns for
ownership control.
// For flagBot, consider implementing a decentralized governance mechanism for flagging bots.
```

## 3 - Compiler Issues

**Result: Pass**

#### 4 - Delegate Call to Untrusted Contract

**Result: Pass**

#### 5 - Dependence on Predictable Variables

**Result: Pass**

#### 6 - Ether/Token Theft

**Result: Pass**

#### 7 - Flash Loans

**Result: Pass**

#### 8 - Front Running

**Result: Pass**

#### 9 - Improper Events

**Result: Pass**

#### 10 - Improper Authorization Scheme

**Result: Pass**

#### 11 - Integer Over/Underflow

**Result: Pass**

#### 12 - Logical Issues

**Result: Medium**

Details: The `swapBack` function does not check for the success of the `swapTokensForEth` and `addLiquidity` functions, which could lead to unexpected behavior if these functions fail.

**Code:**

```
function swapBack() private {  
    ...  
    swapTokensForEth(contractBalance - liquidityTokens);  
    ...  
}
```

```
        addLiquidity(liquidityTokens, ethForLiquidity);
        ...
    }
```

#### Correction:

```
function swapBack() private {
    ...
    bool swapSuccess = swapTokensForEth(contractBalance - liquidityTokens);
    require(swapSuccess, "Swap failed");
    ...
    (uint256 amountToken, uint256 amountETH, uint256 liquidity) = addLiquidity(liquidityTokens,
    ethForLiquidity);
    require(liquidity > 0, "Add liquidity failed");
    ...
}
```

### 13 - Oracle Issues

Result: Pass

### 14 - Outdated Compiler Version

Result: Pass

### 15 - Race Conditions

Result: Pass

### 16 - Reentrancy

Result: Pass

### 17 - Signature Issues

Result: Pass

### 18 - Sybil Attack

Result: Pass

### 19 - Unbounded Loops

Result: Pass

### 20 - Unused Code

## Result: Low

Details: The contract contains unused code, such as the `decimals` function in the `ERC20` contract, which always returns 18. This function could be removed to save gas if the token will always have 18 decimals.

### Code:

```
function decimals() public view virtual override returns (uint8) {  
    return 18;  
}
```

### Correction:

```
// Remove the decimals function if the token will always have 18 decimals.
```





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