

# Backtest Report

Strategy Preparation

Ideal Lag : 1

## Johansen Cointegration Test Results

Number of cointegrated relationships : 0

Hypothesis	Eigenvalue	Trace Statistic	Critical Value (Trace)	Max Eigenvalue Statistic	Critical Value (Max Eigenvalue)	Decision (Trace)	Decision (Max Eigenvalue)
H0	0.069730	3.923082	10.4741	3.397184	12.3212	Fail to Reject	Fail to Reject
H1	0.011127	0.525898	2.9762	0.525898	4.1296	Fail to Reject	Fail to Reject

\*\* IF Trace Statistic > Critical Value AND Max Eigenvalue > Critical Value then Reject Null of at most r cointegrating relationships.(r=0 in first test)

Cointegration Vector : [0.08457333942056758, -0.015039643238558954]

## ADF Test Results

Ticker	ADF Statistic	p-value	Critical Value (1%)	Critical Value (5%)	Critical Value (10%)	Stationarity
spread	-1.596423	0.48539	-3.577848	-2.925338	-2.600774	Non-Stationary

\*\* IF p-value < 0.05 and/or statistic < statistic @ confidence interval, then REJECT the Null that the time series possesses a unit root (non-stationary).

## Phillips Perron Results

Ticker	PP Statistic	p-value	Critical Value (1%%)	Critical Value (5%%)	Critical Value (10%%)	Stationarity
spread	-1.450828	0.557681	-3.577848	-2.925338	-2.600774	Non-Stationary

\*\* IF p-value < 0.05, then REJECT the Null Hypothesis of a unit root (non-stationary time series).

Half-Life: 7.287610712770921

# Performance Metrics



