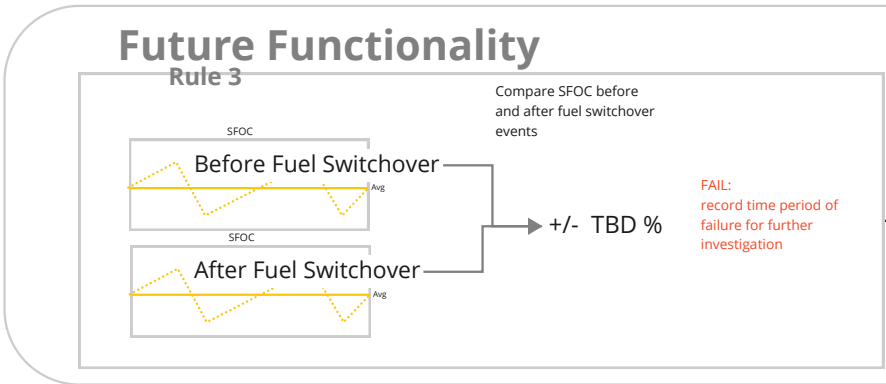# Fuel Config UAT Automation

Use Heading and Speed through water to identify constant speed events

SFOC

Shaft Power

36 hour

Speed through water

36 hour

Features API

Extract SFOC data segments identified as constant heading/speed

Rule 1

SFOC

Analyze individual sections for compliance with min max

Max (210)

Min (150)

FAIL: record time period of failure for further investigation

Rule 2

SFOC

Find AVG of all segments

SFOC Avg

+/- TBD %

Compare individual segments to overall average

FAIL: record time period of failure for further investigation

Future Functionality

Rule 3

Before Fuel Switchover

After Fuel Switchover

+/- TBD %

Compare SFOC before and after fuel switchover events

FAIL: record time period of failure for further investigation

UAT Results

Segment	SFOC Avg	P/F	Reason
2017-05-07 03:23:40+00 - 2017-05-09 03:23:40+00	195	Pass	
2017-05-07 03:23:40+00 - 2017-05-09 03:23:40+00	205	FAIL	SFOC > 210

Segment	SFOC Avg	P/F	Reason
2017-05-07 03:23:40+00 - 2017-05-09 03:23:40+00	195	Pass	
2017-05-07 03:23:40+00 - 2017-05-09 03:23:40+00	205	FAIL	SFOC > TBD% over average

Switchover Event	Datetime	P/F	Reason
1	2017-05-07 03:23:40+00 - 2017-05-09 03:23:40+00	Pass	
2	2017-05-07 03:23:40+00 - 2017-05-09 03:23:40+00	FAIL	SFOC > TBD% after fuel switchover

UAT Report

UAT Report
Ship ID: <ship id>
Ship Name: <ship name>

Summary:
Segments checked: <num segments checked>
Segments Passed: <num segments passed>
Segments Failed <num segments failed>

Detailed Results:
FAILED:
2017-05-07 03:23:40+00 - 2017-05-09 03:23:40+00
SFOC: <SFOC>
Result: FAIL - SFOC > 210

PASSED
2017-05-07 03:23:40+00 - 2017-05-09 03:23:40+00
SFOC: <SFOC>
Result: PASS

*Above is example output

Success Metrics:
Reduce time to run UAT
Accuracy of report
false positives