D6082 High Temp Foam

FOAMB18 Data Summary

June 3, 2024

FOAMB18 Reference Oil Industry Data Summary

D6082 Average Analysis 19000000 -99999999 (LTMS DATE date) DSTEMP

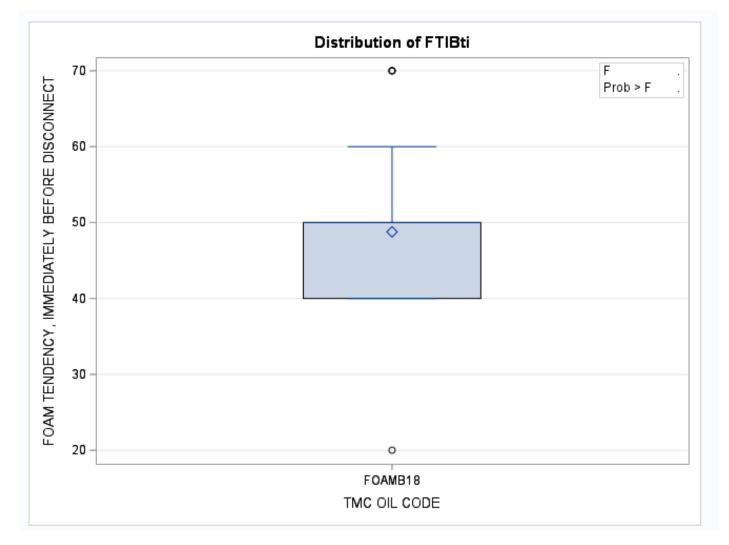
The MEANS Procedure

TMC OIL CODE=FOAMB18

	Analysis Variable : FTIBti							
Ν	Mean	Std Dev	Minimum	Maximum				
131	48.7786260	7.3665461	20.0000000	70.0000000				

Notes: Only 1 failing Calibration result for FOAMB18 (FTIBti = 20ml) Only 3 Calibration results for FOAMB18 at 70mL

FOAMB18 Mean Box and Whisker Plot Foam Tendency (FTIBti)



FTBlyi: Shewhart Severity

D6082 Pooled s - FTIByi 19000000 -99999999 LTMS DATE date DSTEMP

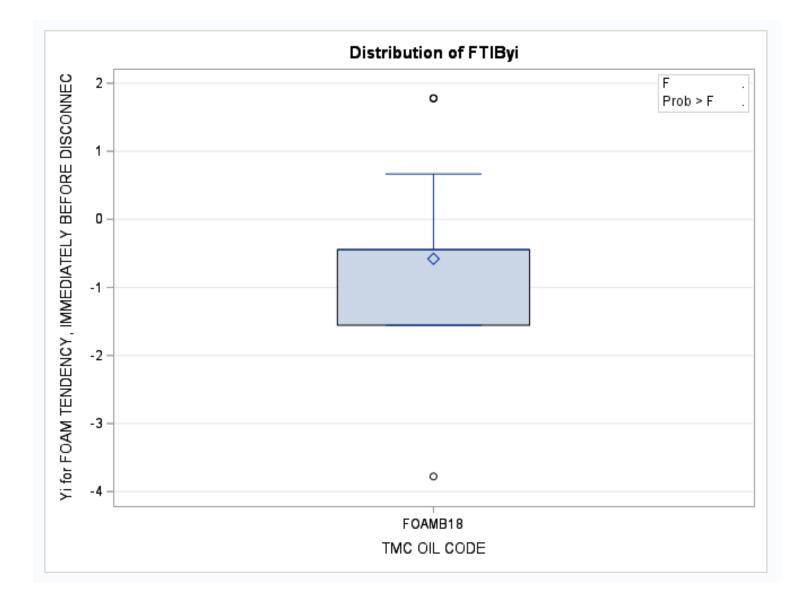
The GLM Procedure

Dependent Variable: FTIByi Yi for FOAM TENDENCY, IMMEDIATELY BEFORE DISCONNEC

Source	ource DF		Mean Square	F Value	Pr > F
Model	0	0.0000000			
Error	130	87.09358213	0.66995063		
Corrected Total	130	87.09358213			

R-Square	Coeff Var	Root MSE	FTIByi Mean
0.000000	-141.0844	0.818505	-0.580153

Shewhart Severity Plot: FOAMB18



Suggested Acceptance Bands for FOAMB18 TENDENCY* (n=131; mean=48.8; s=7.4)

Target & StDEV					Target & StDev				
REF OILS Range (Low, High)				REF OILS	Range (Low, High)				
	Current				Proposed Revised				
	target	sd	Low	High		target	sd	Low	High
FOAMB18	54	9	36	72	FOAMB18	48.8	7.4	34.3	63.3
66 (Discrm)	>100		>100		66 (Discrm)	>100		>100	

* STABILITY RESULTS (after 1 minute) MUST ALWAYS BE ZERO (0).

FOAMB18 Data Review

- Results for the FOAMB18 reference oil is very close to the initial data set.
- FOAMB18 TENDENCY average result is slightly lower than initial target (48.8ml vs 54ml).
 - StDEV of larger data set is tighter (7.4 vs 9)
- Option 1: Keep the current Acceptance Band
 - **40ml to 70ml** (because readings are rounded to nearest 10ml)
 - 36 to 72
- Option 2: Base Acceptance Band on 131 data points
 - 40ml to 60ml (because the sd is smaller in larger data set)
 - 34 to 63