

Topics:

- WERF Study Revisited
- Grease Separator Retention Losses
- A New FOG Test Method Evaluated

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Conclusions:

Detergent Flows Remove Retained Grease from Separators

Spectrophotometer Method = EPA 1664
Accuracy

Why Does This Happen?

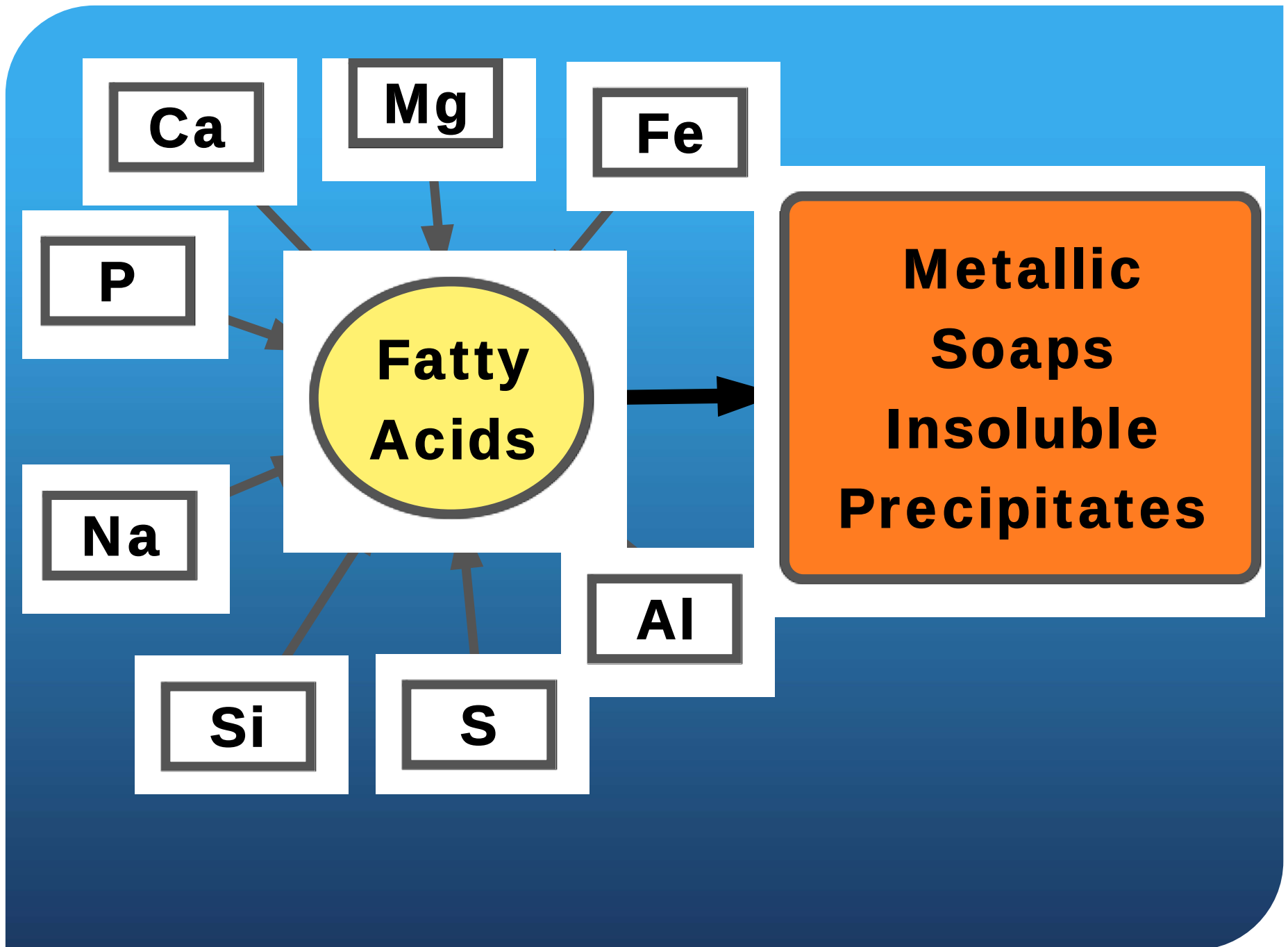


WERF Study 2008

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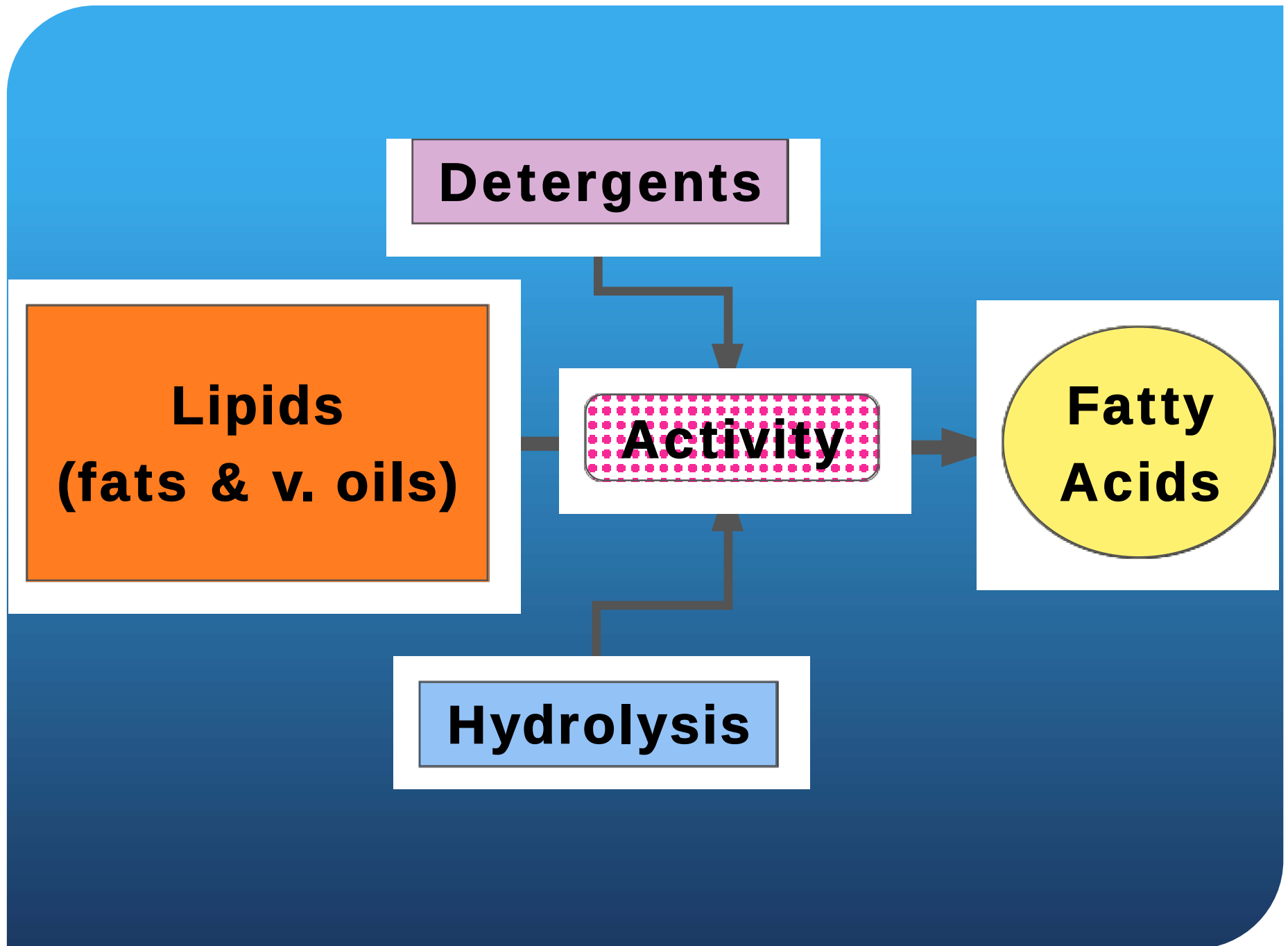
Detergents

**Lipids
(fats & v. oils)**

Activity

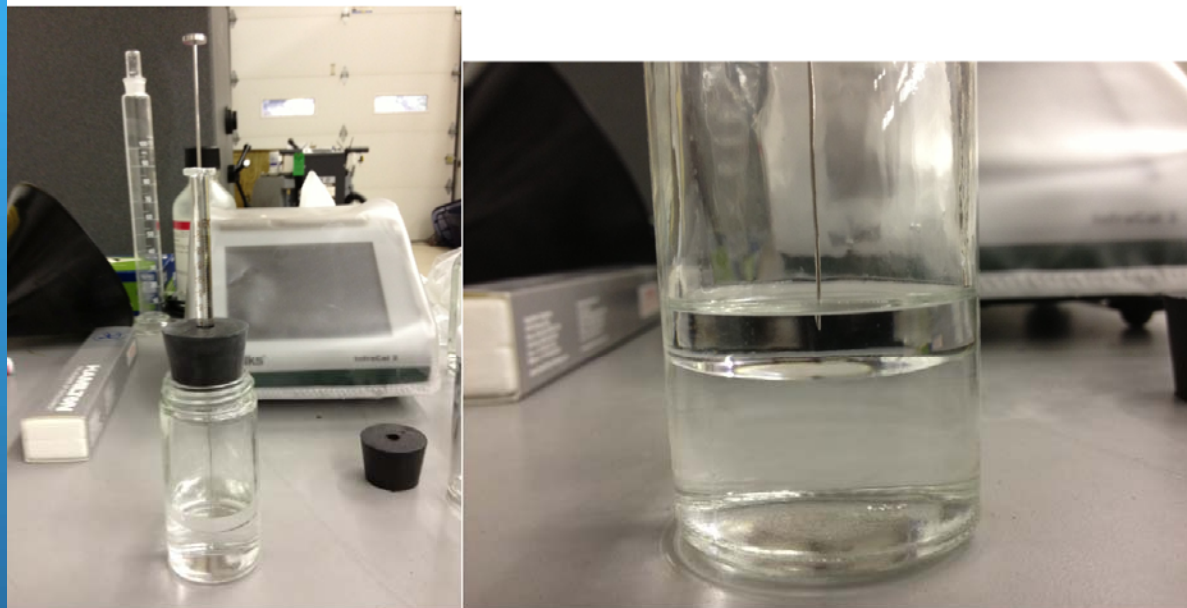
**Fatty
Acids**

Hydrolysis



Fast Assessment FOG Test

below.



Accuracy Assessment

Known Standard (ppm)	Wilks Analyzer (ppm)	Difference to Known
7.8125	3.8	51%
15.625	8.5	46%
31.25	30.8	1%
62.5	57.6	8%
125	120.3	4%
250	242.6	3%
500	475.5	5%
750	739.3	1%
1000	1022.2	-2%
1500	1510.2	-1%
2000	1953.1	2%

Known Concentrations vs Wilks Analysis

Chart Area

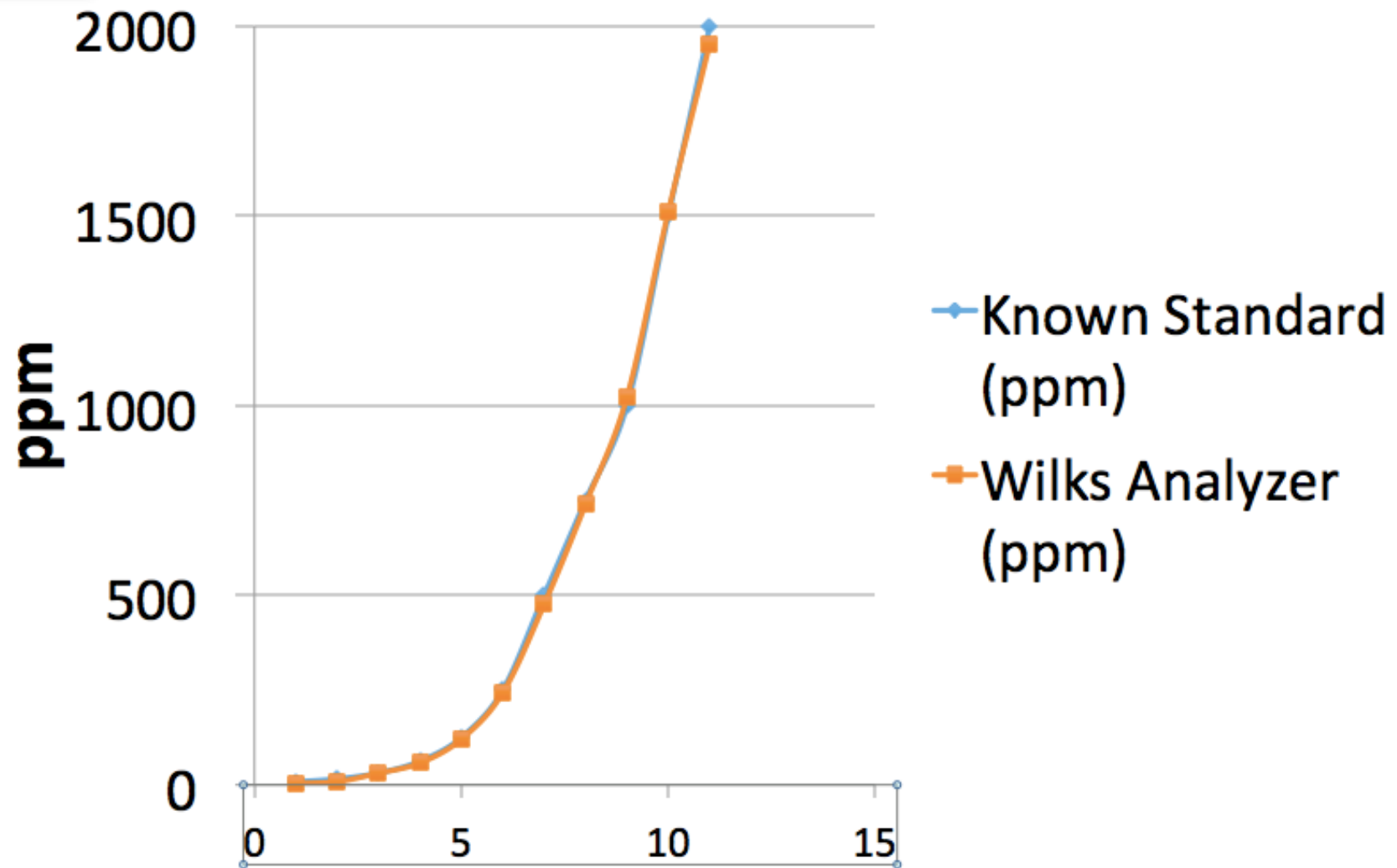
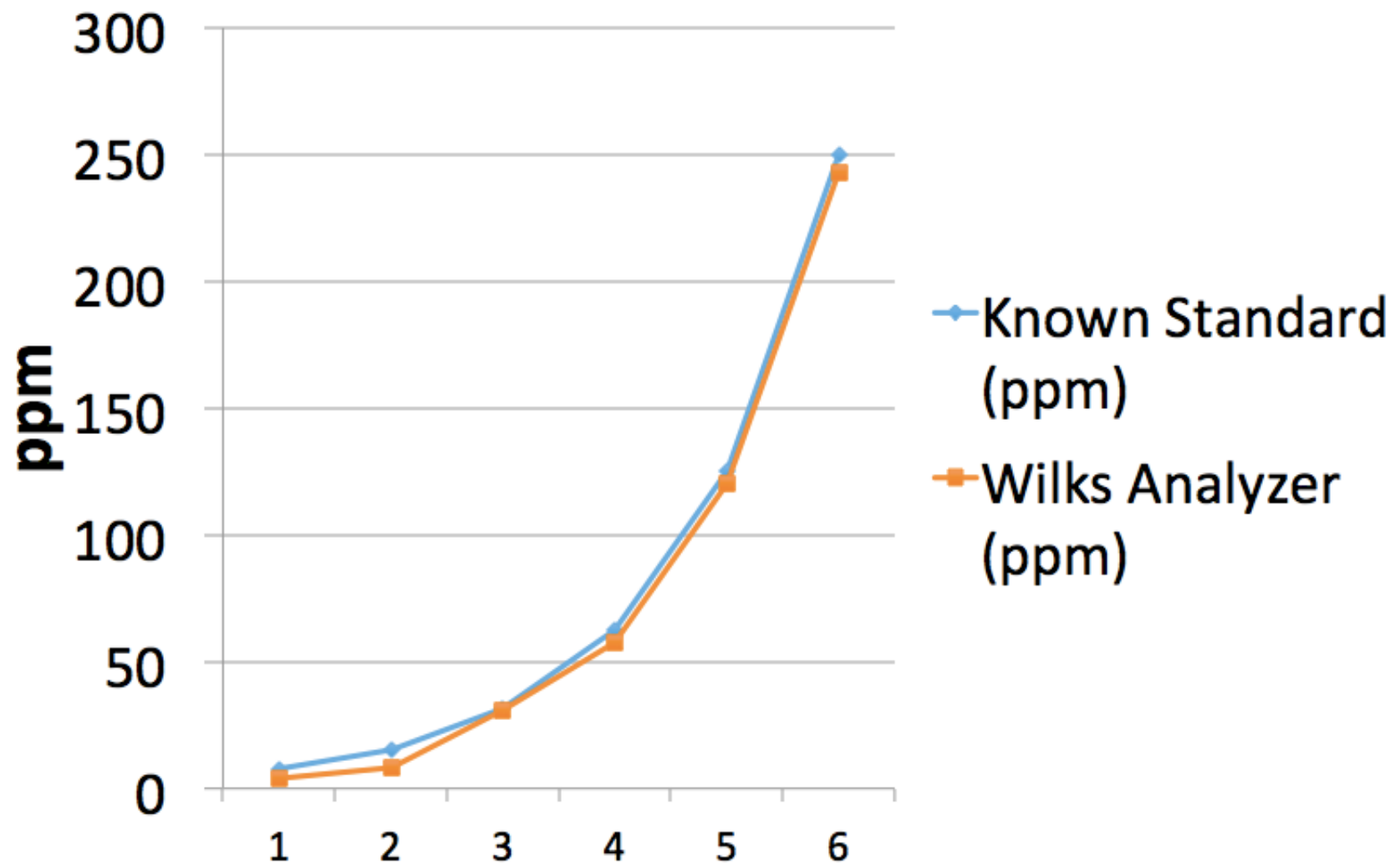


Chart Area

Known Concentration vs Wilks Analysis



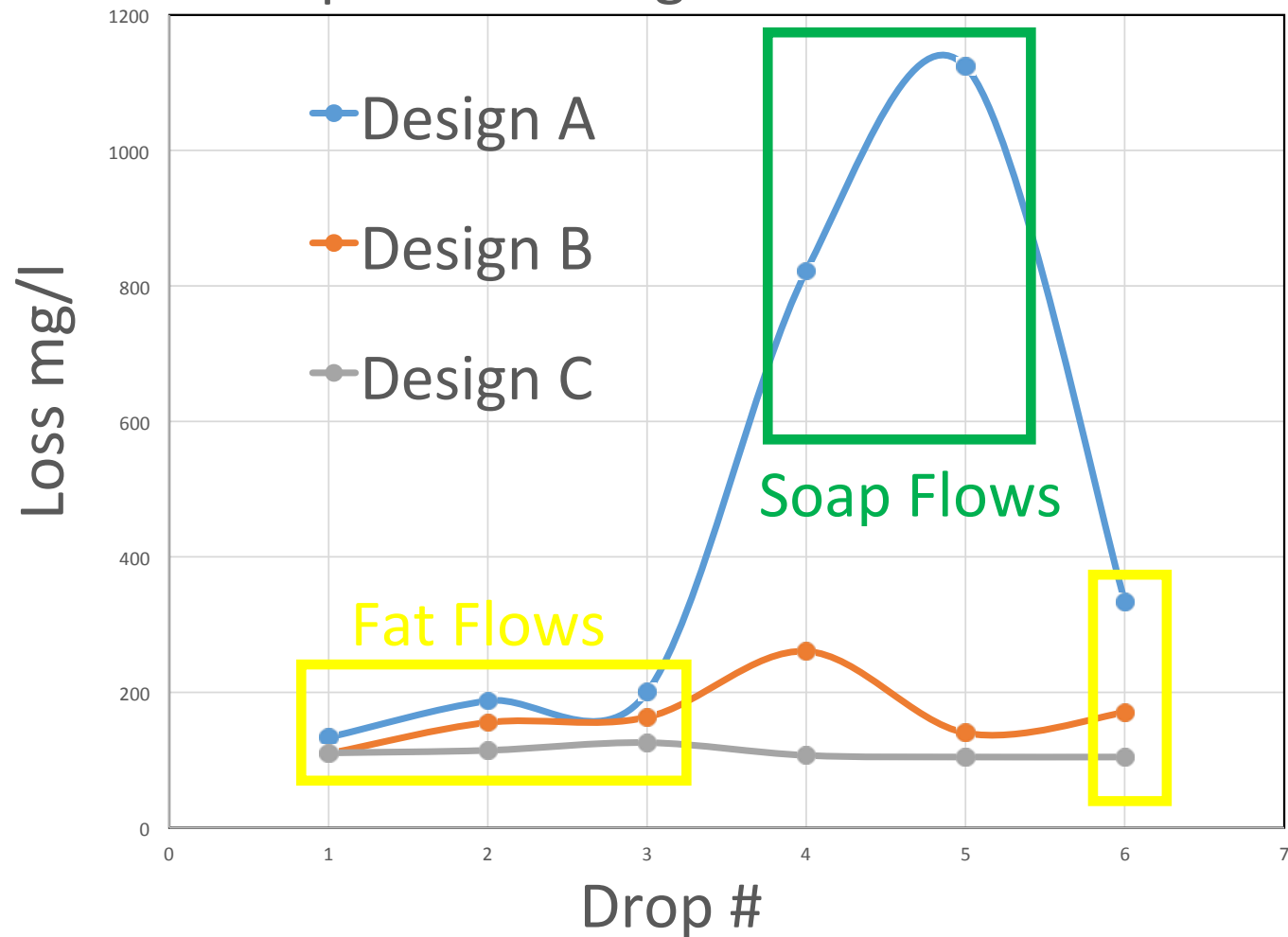
Emulsion Retention Loss Test



Effluent Sampling Methodology



Separator Design vs Emulsion Losses



Conclusions:

Detergent Flows Remove Retained Grease from Separators Via Emulsification

Spectrophotometer Method Accuracy
= / > EPA 1664 Gravimetric Method

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