



A Program of ASTM International

Test Monitoring Center

<http://astmtmc.cmu.edu>

GMOD Reference Test Activity

All Reference data reported through 2/28/19

Summary of Activity

- Two calibrated stands in two laboratories
 - 3rd lab attempting to calibrate a stand
- Reference oil
 - Sufficient quantities of reference oils available
 - RO 434-3 being introduced.
 - Three tests to date, all resulted in calibration.
- All parameters in control for severity and precision

GMOD Activity

Test Status	Validity Code	#
Acceptable Calibration Test	AC	6
Statistically Unacceptable Calibration Test	OC	1
Operationally Invalid Calibration Test	LC	1
Aborted Calibration Test	XC	1
Total		9

GMOD - Failed Tests

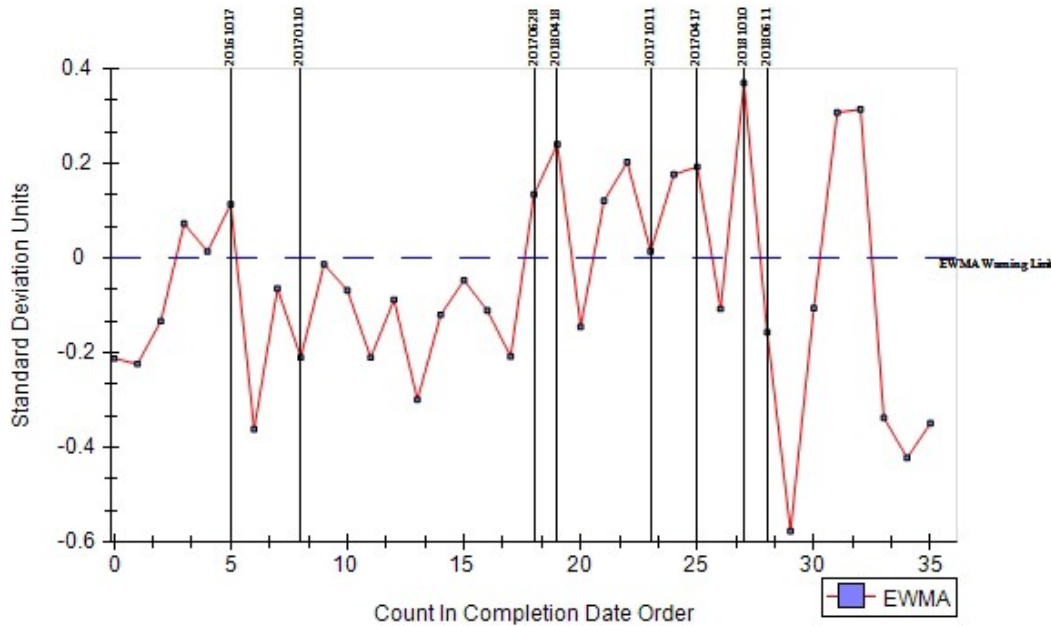
Test Status	#
PVIS Mild (Returning Stand)	1
Totals	1

GMOD - Lost Tests*

Test Status	Cause	#
Aborted	High oil consumption/Load control (failing fuel heat exchanger)	1
Invalid	Broken Piston	1
Totals		2

*Invalid and aborted tests

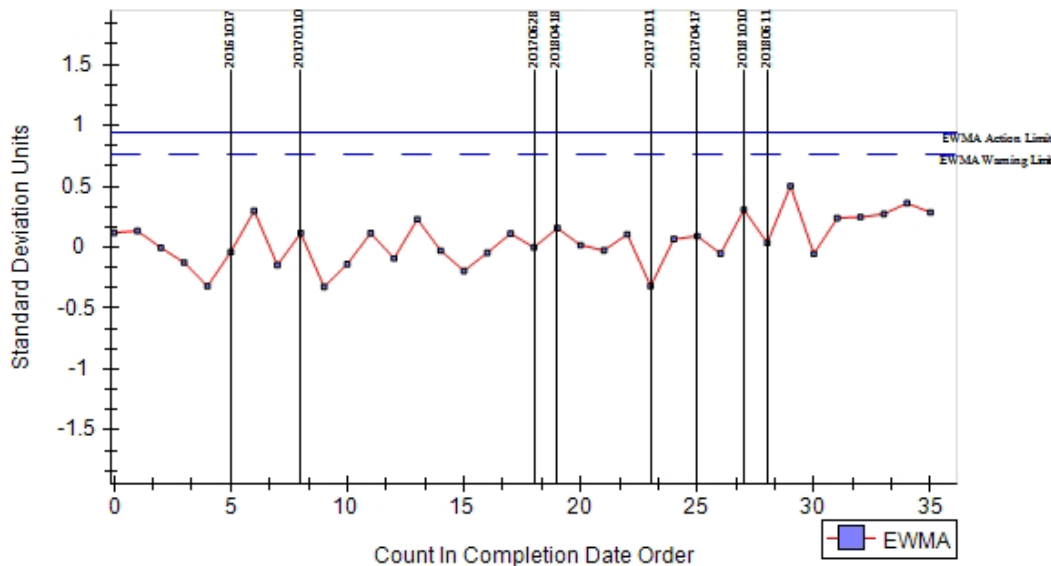
PVIS LTMS Severity Analysis



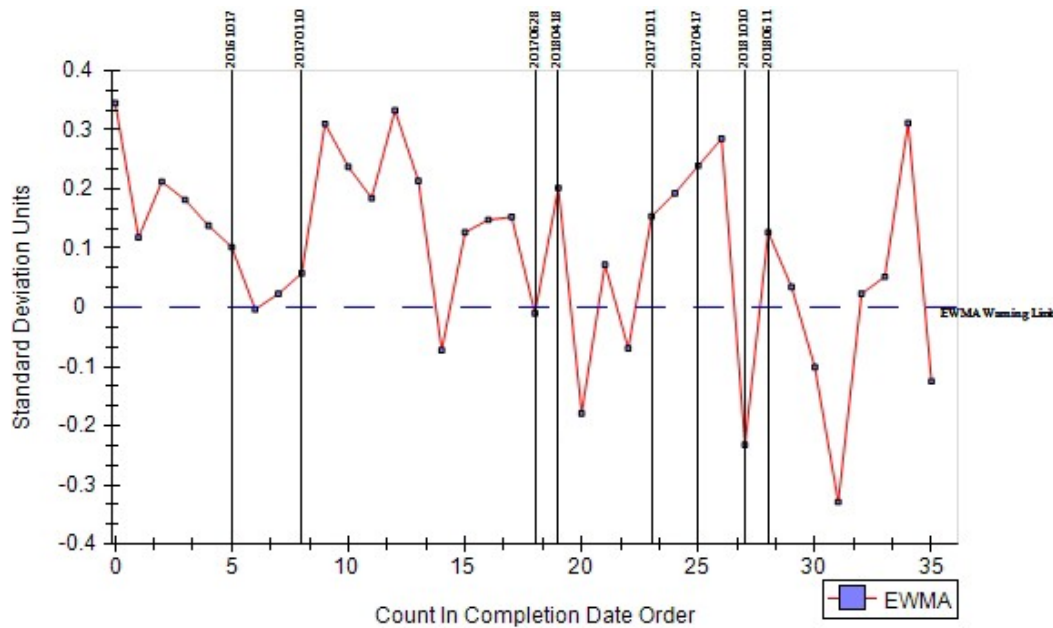
PVIS Severity / Precision

- PVIS is in control for severity and precision
- Trending slightly mild relative to precision matrix targets

PVIS LTMS Precision Analysis



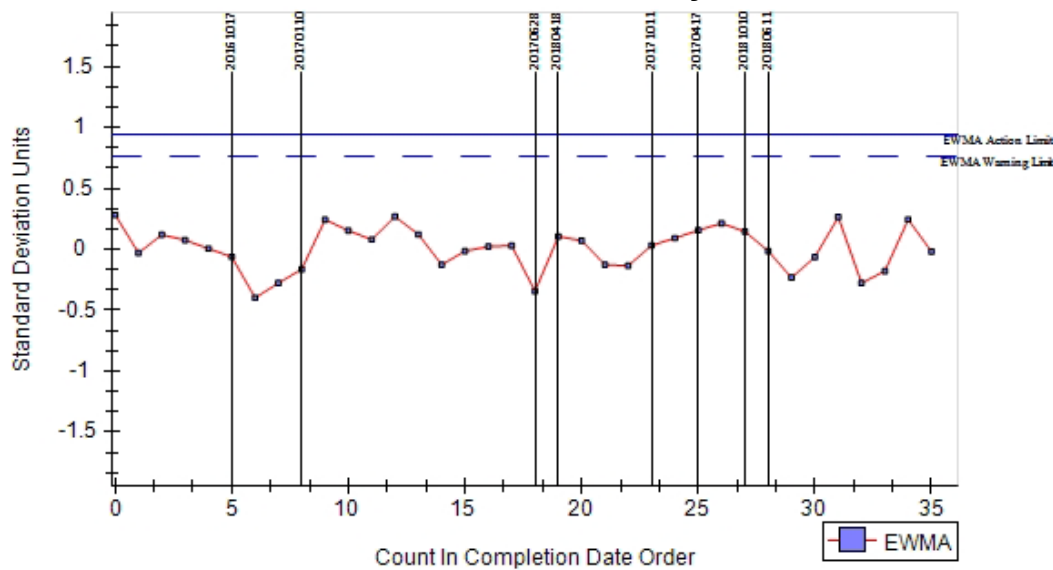
WPD LTMS Severity Analysis



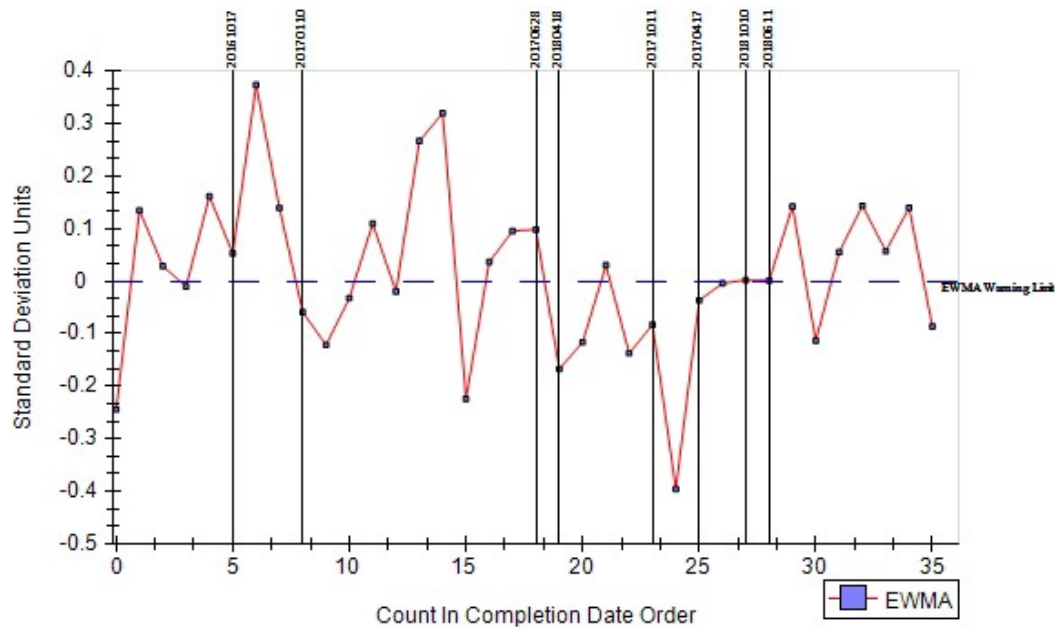
WPD Severity / Precision

- WPD is in control for severity and precision
- Trending slightly severe relative to precision matrix targets

WPD LTMS Precision Analysis



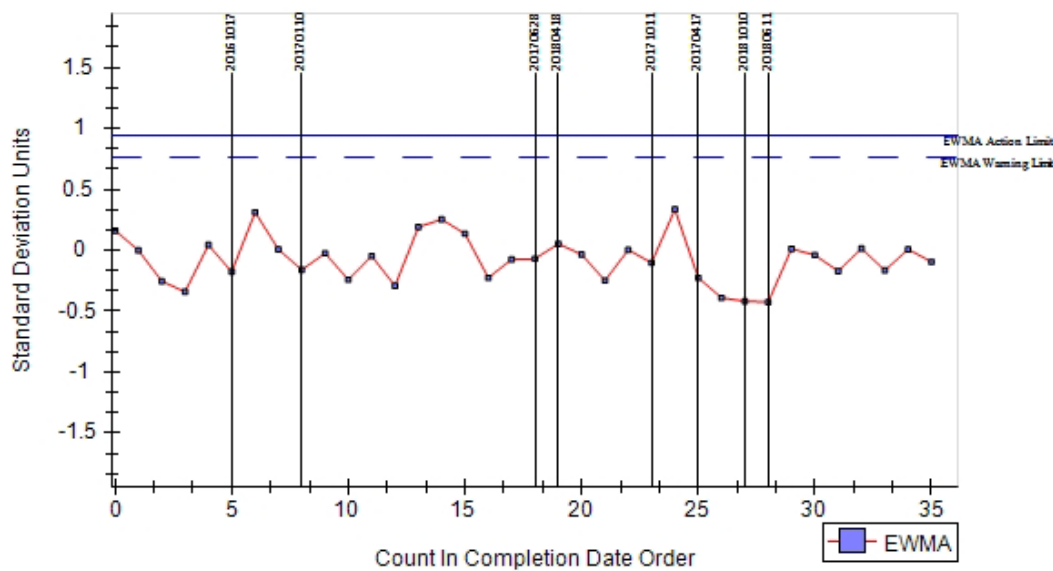
PHOS LTMS Severity Analysis



PHOS Severity / Precision

- PHOS is in control for severity and precision
- Trending mild relative to precision matrix targets (not a calibration criteria)

PHOS LTMS Precision Analysis



Reference Oil Inventory Estimated Life

Oil	Tests	Original Blend Amount (gallons)	Quantity Shipped in last 6 months	TMC Inventory (gallons)	Lab Inventory (gallons)	Estimated Life
GMOD01-1	GMOD	320	10	206	20	5+ years
GMOD02-1	GMOD	320	15	203	20	5+ years
434-2	IIIH/GMOD	550	0	0	17.5	depleted
434-3*	IIIH/GMOD	980	5	848.5	5	5+ years

* The inventory of 434-3 should last considerably longer as IIH has decreased quantity shipped from 4 gallons to 2.5 gallons.



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