

A PROVEN PARTNERSHIP

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February 6, 2009

TO: Mack HTCT (D5579) S. P. Membership and Mailing List

SUBJECT: Mack HTCT SP Meeting Minutes, September 6, 2006, Warrendale, PA

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**Call to order:**

Brian Koehler, the chairman of the Mack High Temperature Cyclic Test ASTM Surveillance Panel called the meeting to order at 11:15 a.m. on Sept. 6, 2006 at the PRI headquarters in Warrendale, PA.

**Chairman's Comments:**

The chairman handed out copies of a proposed agenda. See attachment 1.

**Review/ Revise Membership:**

The chairman passed around a Membership/Visitor sign up list, see attachment 2.

**Approval of minutes from the last meeting:**

There have been no comments concerning the meeting minutes posted to the TMC web site for April 6, 2005. The minutes are considered approved as posted.

**Reference Oil Usage:**

Reference oil statistics were reviewed using presentations made by the Test Monitoring center.

Action Item: Only 2 tests have been completed on the new TMC 155. Once 5 acceptable tests are completed it was requested that the TMC calculate a new industry mean and pooled standard deviation for the review of the S.P. The S.P. will then decide to accept or decline the new targets.

Action Item: The panel asked the TMC to research the possibility of converting all of the reference oil field in the LTMS database to a standard numerical format. This is to make processing easier for those wanting to use Excel.

**Industry Severity Review:**

The test monitoring center's Don Lind reviewed industry lab and stand severity with the panel using data plots found in attachment 3.

Both labs, both stands, both oils have been running severe. After much discussion the panel made and passed the following motion. It was understood that all stands were now using configuration 2 hardware and that configuration 1 hardware may have caused earlier reference oil pass/ fail statistics to have been shifted.

Motion: The following motion was made by Cory Koglin and seconded by Don Lind: Accept the new proposed mean and standard deviation for TMC 151-3, TMC 155, and TMC 150, using these revised statistics for reference testing affective 9-8-06. Motion passed unanimously.

**Old Business:**

There was no old business to be discussed.

**New Business:**

There was no new business to be discussed.

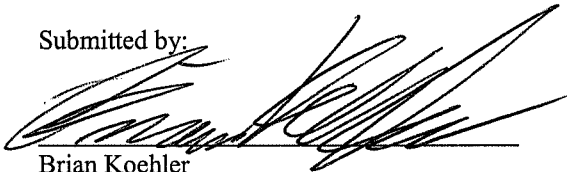
**Next Meeting:**

The next meeting will be at the call of the chairman.

**Adjournment:**

Meeting was completed at 12:00 noon.

Submitted by:



Brian Koehler  
Mack HTCT Surveillance Panel Chairman  
Southwest Research Institute  
6220 Culebra Road  
San Antonio, TX 78238-5166

clm  
Attachments

## **Attachment 1**

**Mack HTCT Surveillance Panel Meeting  
PRI, Warrendale, PA  
September 6, 2006  
11:15 am**

**AGENDA**

Call to Order

Chairman's Comments, Brian Koehler, SwRI

Review/ Revise Membership

Motion/ Action Item Recorder

New reference Oil Blend Usage Status (TMC 155)

Industry Reference Oil Severity

Old Business

New Business

Summary of Action Items

Summary of Motions Passed

Next Meeting

Adjournment

## **Attachment 2**

# CYCLIC DURABILITY SURVEILLANCE PANEL

Meeting Date: 9/6/06

Initials	Name	Voting Status	Company Name & Address	Telephone	Fax	Email
<i>MB</i>	Bartlett, Don	Non-Voting	The Lubrizol Corporation 29400 Lakeland Blvd. Wickliffe, OH 44092	440-347-2388	440-347-2878	dtb@lubrizol.com
<i>DAB</i>	Bell, Don	Non-Voting	Afton Chemical Corporation 500 Spring Street Richmond, VA 23218	804-788-6332	804-788-6243	don.bell@aftonchemical.com
	Bryson, Tom	Voting	Mack Trucks, Inc. 13302 Pennsylvania Avenue Hagerstown, MD 21740	301-790-5454	301-790-6744	
	Buitrago, Juan	Voting	Chevron Oronite Company 100 Chevron Way Richmond, CA 94802	510-242-1161	510-242-3392	jabu@chevrontexaco.com
	Chambers, Harold	Non-Voting	Visteon Corporation 17000 Rotunda Dr. Dearborn, MI 48120-1100 Cube-C260-81	313-755-4246	313-755-5681	hchambers@visteon.com
	Comfort, Allen	Non-Voting	USArmy TAGOM 6501 E. I. Mile Warren, MI 48307	586-574-4225	586-574-4244	allen.s.comfort@us.army.mil
	De La Fuente, Hector	Non-Voting	Southwest Research Institute 6220 Culebra Road San Antonio, TX 78238-5166	210-522-5996	210-680-1777	hdela Fuente@swri.org
	Dharte, John	Non-Voting	AAM 2965 Technology Dr. Rochester Hills, MI 48309	248-299-6478	248-293-6945	Dharte@aam.com
	Duckstein, Ron	Voting	PARC Technical Services, Inc. 100 William Pitt Way Pittsburgh, PA 15238	412-826-5115	412-526-5443	rhd@usaor.net
	Farber, Frank	Non-Voting	ASTM Test Monitoring Center 6555 Penn Avenue Pittsburgh, PA 15206	412-365-1030	412-365-1047	frmf@astmtmc.cmu.edu
	Goyal, Arjun	Non-Voting	ExxonMobil Research & Engineering 600 Billingsport Road Paulsboro, NJ 08066			
<i>JTB</i>	Gropp, Jerry	Voting	The Lubrizol Corporation 29400 Lakeland Blvd. Wickliffe, OH 44092	440-347-1223	440-347-1555	jlg@lubrizol.com
	Huron, John	Non-Voting	Chevron Oronite Company 4502 Centerview Drive, Suite 210 San Antonio, TX 78228	210-731-5609	210-731-5699	huro@chevrontexaco.com
	Jacobson, Tom (DROP)	Voting	Infineum USA P.O. Box 556	908-474-3031	908-747-3597	

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# CYCLIC DURABILITY SURVEILLANCE PANEL

Meeting Date: \_\_\_\_\_

Initials	Name	Voting Status	Company Name & Address	Telephone	Fax	Email
<i>[Signature]</i>	Koehler, Brian	Voting	Linden, NJ 07036 Southwest Research Institute 6220 Culebra Road San Antonio, TX 78238-5166	210-522-3588	210-680-1777	bkoehler@swri.org
<i>[Signature]</i>	Koglin, Cory	Voting	Afton Chemical Corporation 500 Spring Street Richmond, VA 23218	804-788-5303	804-788-6358	Cory.koglin@aftonchemical.com
	Layton, Kevin	Non-Voting	Afton Chemical Corporation 500 Spring Street Richmond, VA 23218	804-788-5363	804-788-6358	
<i>[Signature]</i>	Lind, Don	Voting	ASTM Test Monitoring Center 6555 Penn Avenue Pittsburgh, PA 15206	412-365-1034	412-365-1047	dml@astmtmc.cmu.edu
	Marougy, Thelma	Voting	Eaton Corporation 26201 Northwestern Highway Southfield, MI 48037	248-354-6985	248-354-2739	thelmaemarougy@eaton.com
	McGlone, Bruce	Voting	ArvinMeritor 2135 West Maple Troy, MI 48064	248-435-9929	248-435-1411	mcglonbif@meritorauto.com
	Messmann, Grant	Voting	Spicer Off-Highway Dana Corporation P.O. Box 2424 Fort Wayne, IN 46801			
	Oumar-Mahamat, H.	Non-Voting	ExxonMobil Chemical P.O. Box 3140 Edison, NJ 08818	732-321-6193	732-767-3232	Haiou.Oumar-Mahamat@exxonmobil.com
<i>[Signature]</i>	Schenkenberger, Chris	Non-Voting	The Lubrizol Corporation 29400 Lakeland Blvd. Wickliffe, OH 44092	440-347-2927	440-347-2878	csc@lubrizol.com
	Smith, Dale	Voting	PARC Technical Services, Inc. 100 William Pitt Way Pittsburgh, PA 15238	412-826-5051	412-826-5443	dsmith@paretech.com
<i>[Signature]</i>	Sullivan, Bill	Voting	ExxonMobil Chemical Company P.O. Box 3140 Edison, NJ 08818	732-321-3354	732-321-6064	william_t_sullivan@email.mobil.com
	Vettel, Paula	Voting	D.A. Stuart Company 4580 Weaver Parkway Warrenville, IL 60555	630-393-8859	630-393-8577	pvettel@dstuart.net
	Whitton, Claire	Non-Voting	Afton Chemical Corporation 500 Spring Street P.O. Box 2158 Richmond, VA 23218-2159	804-788-5052	804-788-6243	claire.whitton@aftonchemical.com

*Drop*

*Emporium USA CP  
1000 E. Linden Ave  
Linden NJ 07036*

*SR Rea, Salvatore Voting*

*908-474-6602 -3597*

## **Attachment 3**



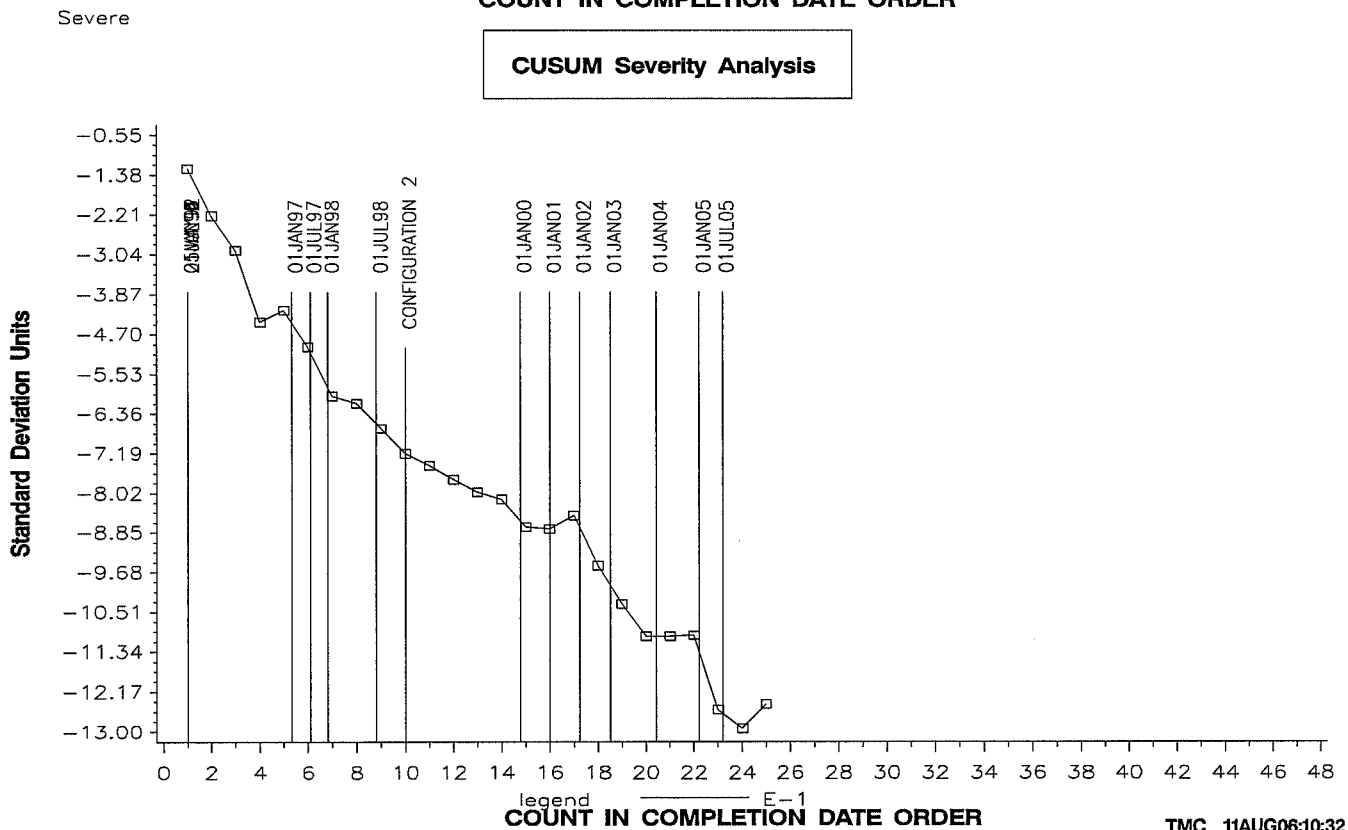
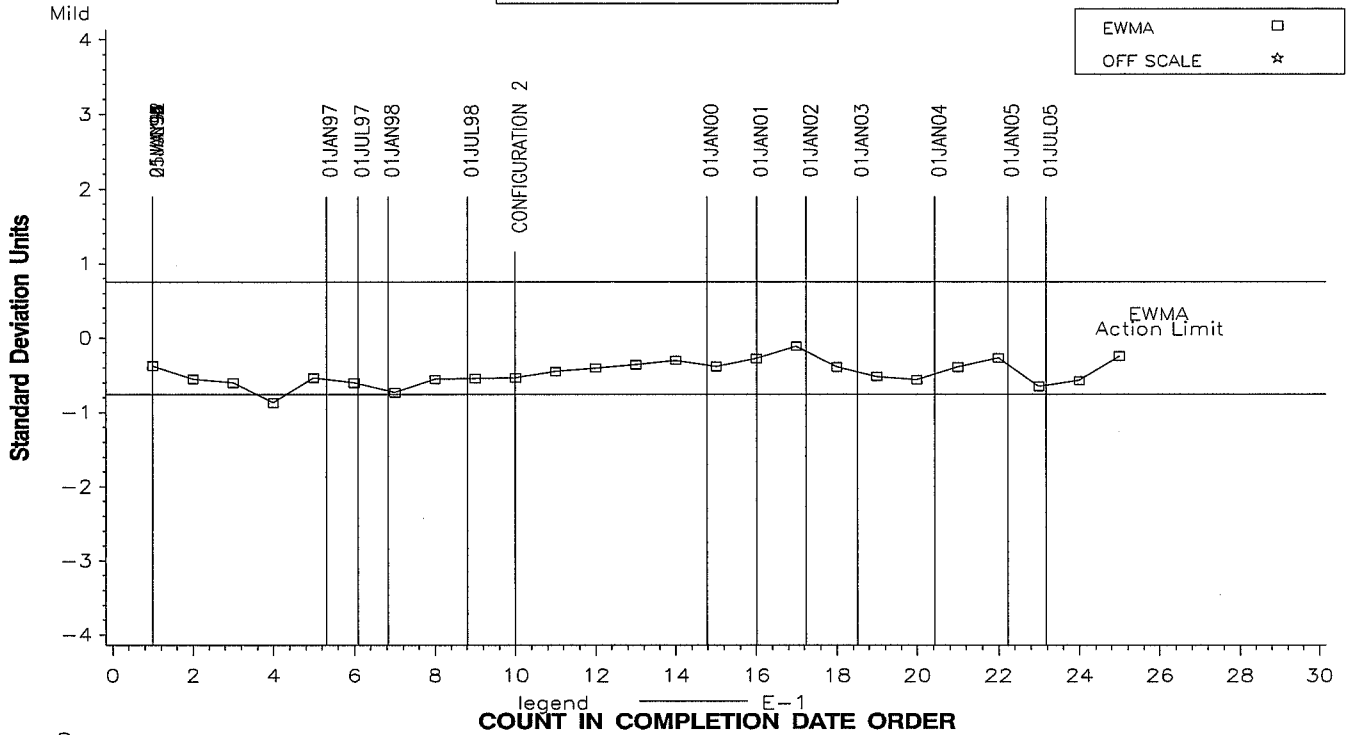
Lab E, Stand 1

# HTCT APPARATUS OPERATIONALLY VALID DATA

## Reference Oil 151 and Reblends

### END OF TEST CYCLES

LTMS Severity Analysis



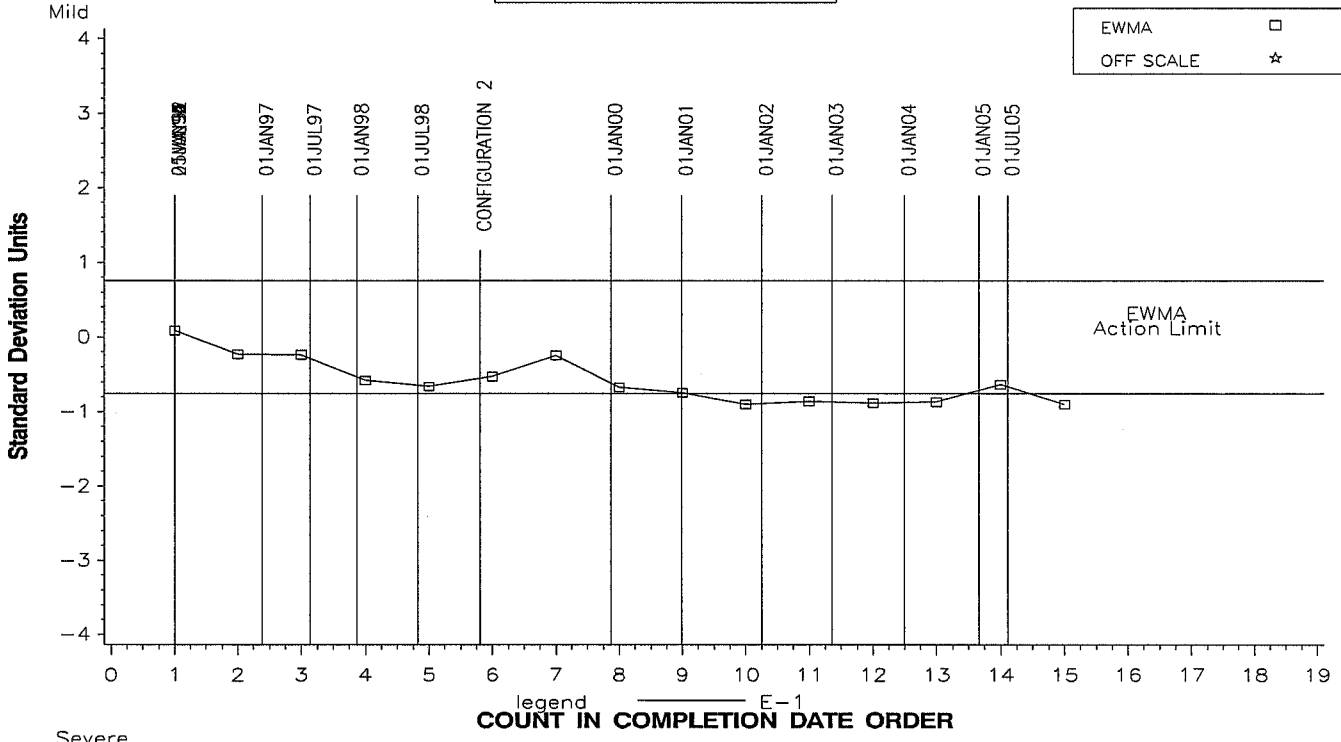
Lab E, Stand 1

# HTCT APPARATUS OPERATIONALLY VALID DATA

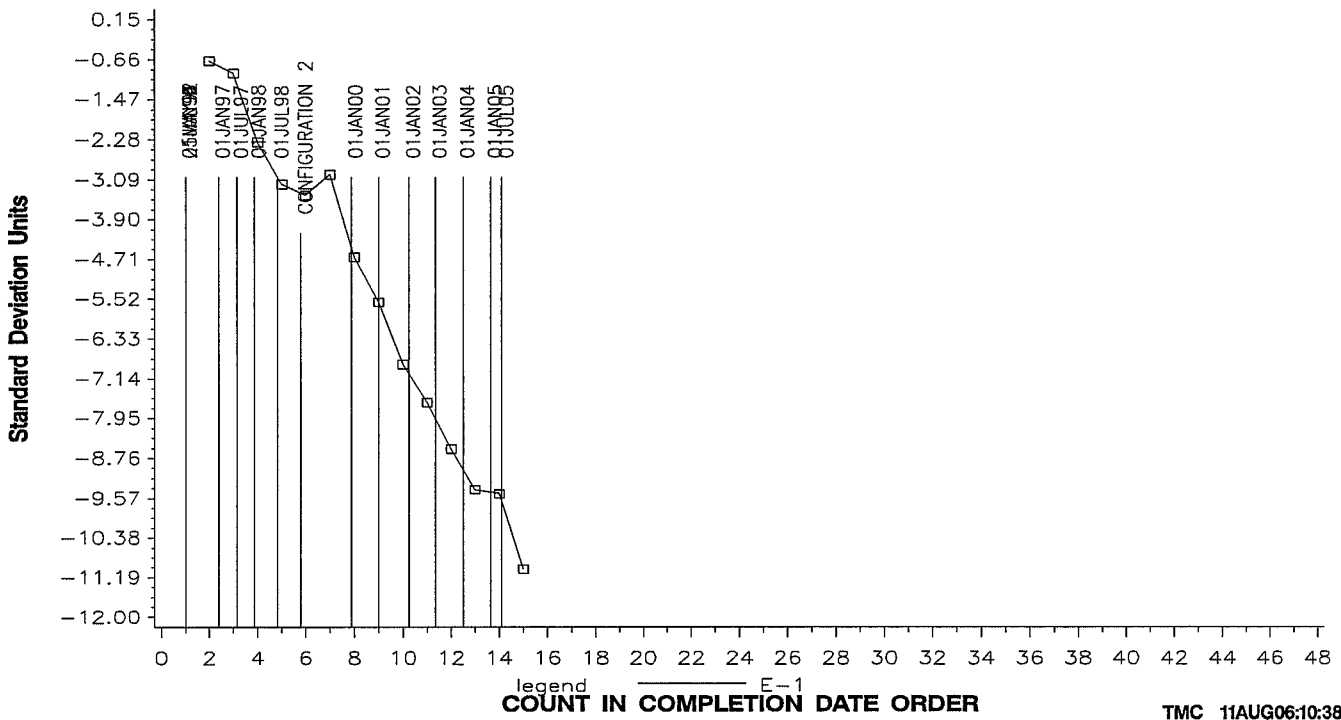
Reference Oil 150 and Reblends

## END OF TEST CYCLES

LTMS Severity Analysis



CUSUM Severity Analysis



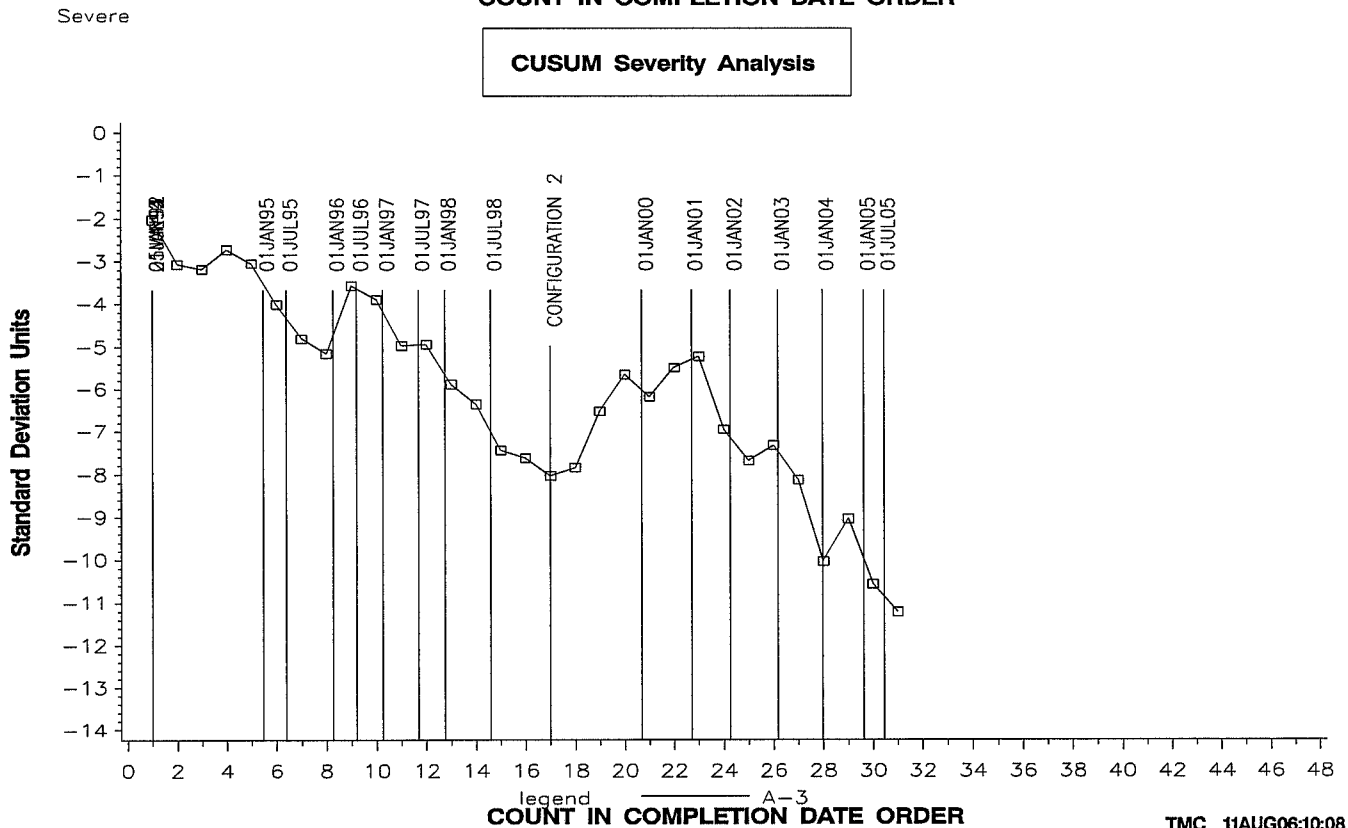
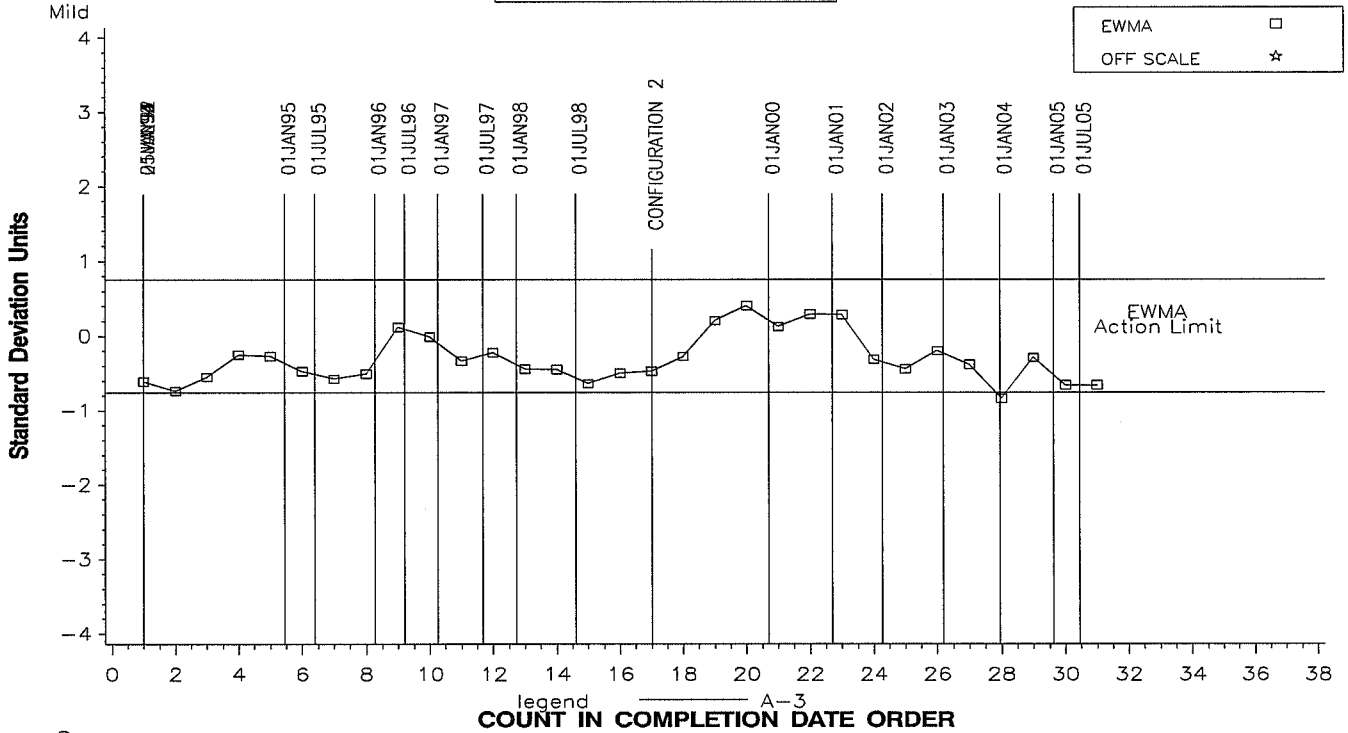
Lab A, Stand 3

# HTCT APPARATUS OPERATIONALLY VALID DATA

## Reference Oil 151 and Reblends

### END OF TEST CYCLES

LTMS Severity Analysis



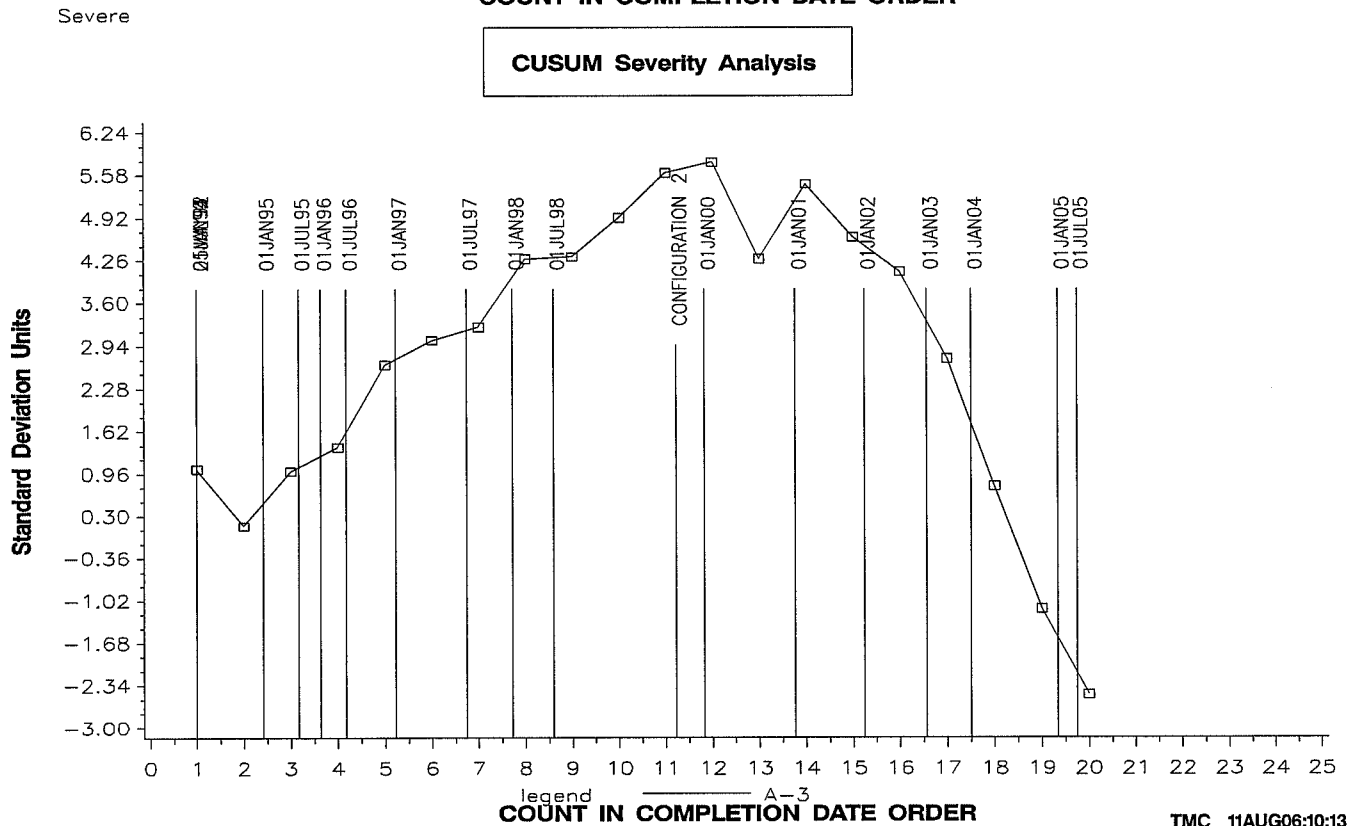
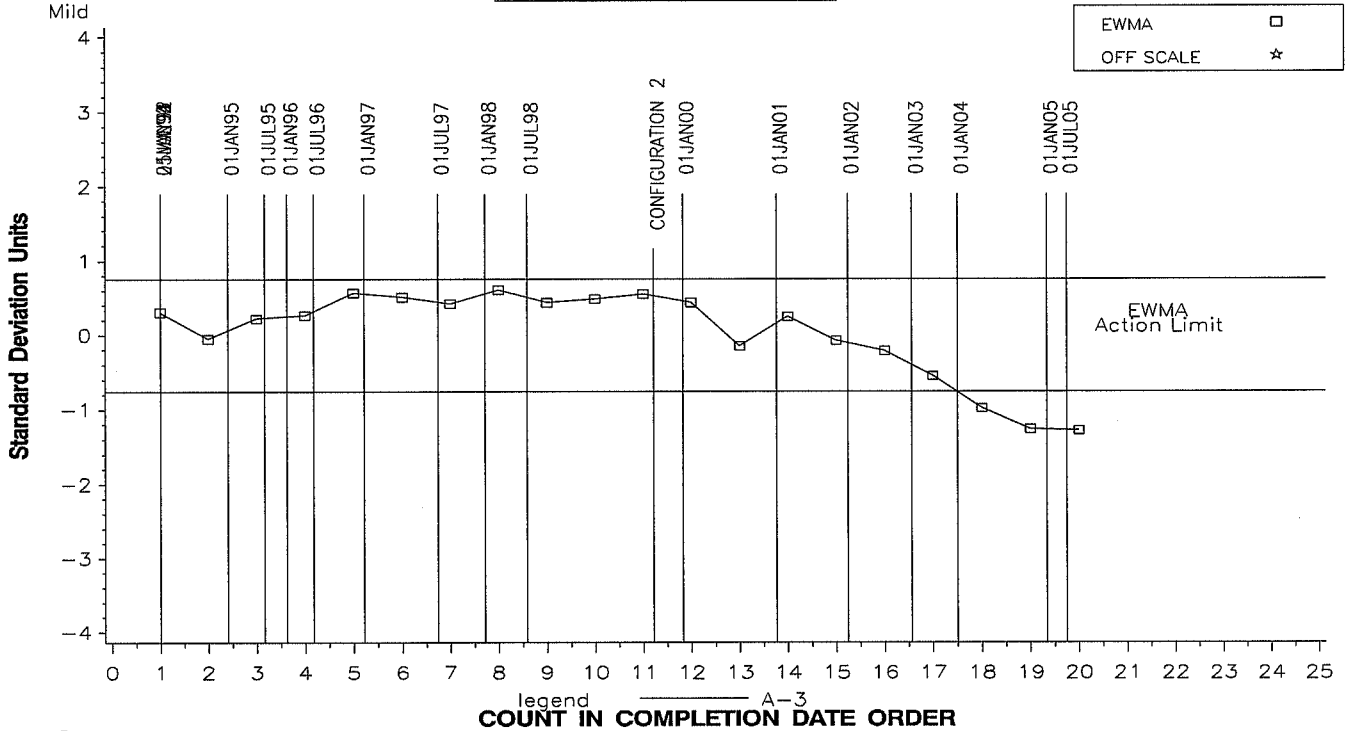
Lab A, stand 3

# HTCT APPARATUS OPERATIONALLY VALID DATA

## Reference Oil 150 and Reblends

### END OF TEST CYCLES

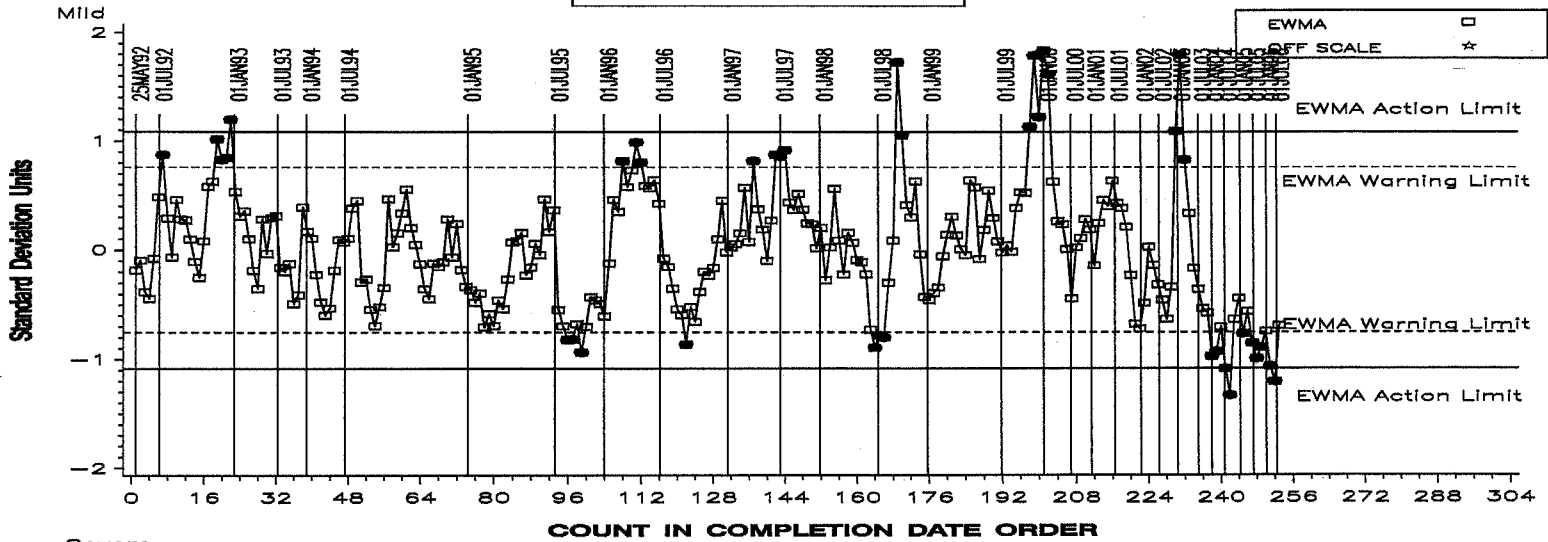
LTMS Severity Analysis



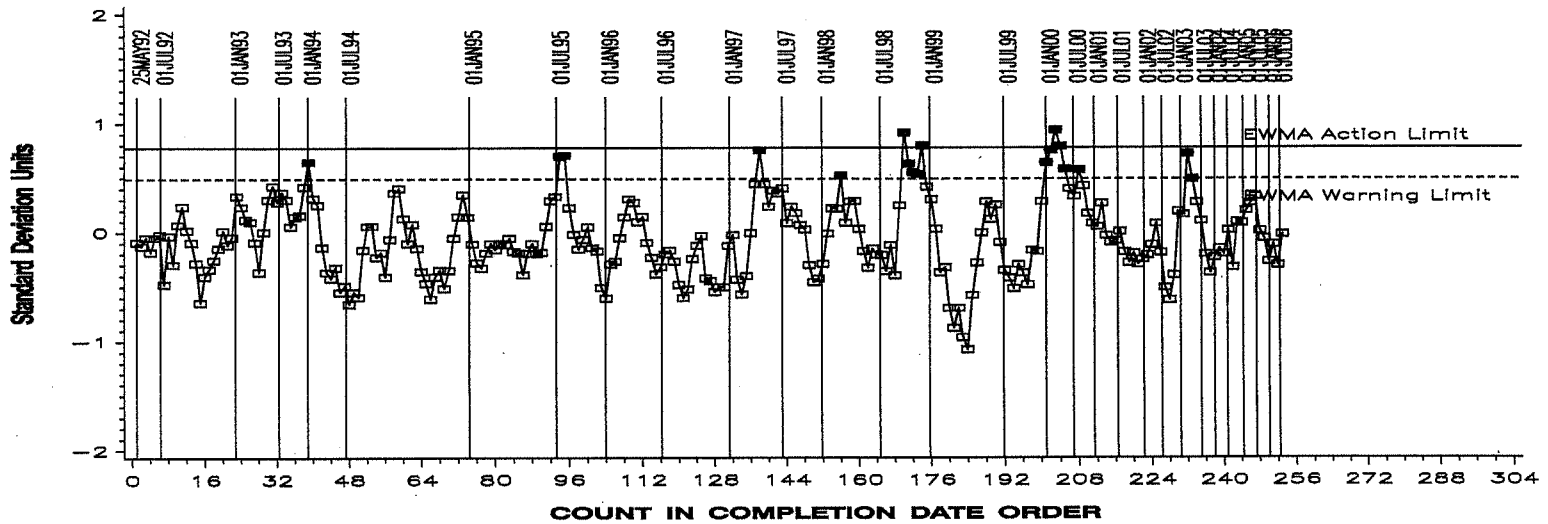
# HTCT INDUSTRY OPERATIONALLY VALID DATA

## END OF TEST CYCLES

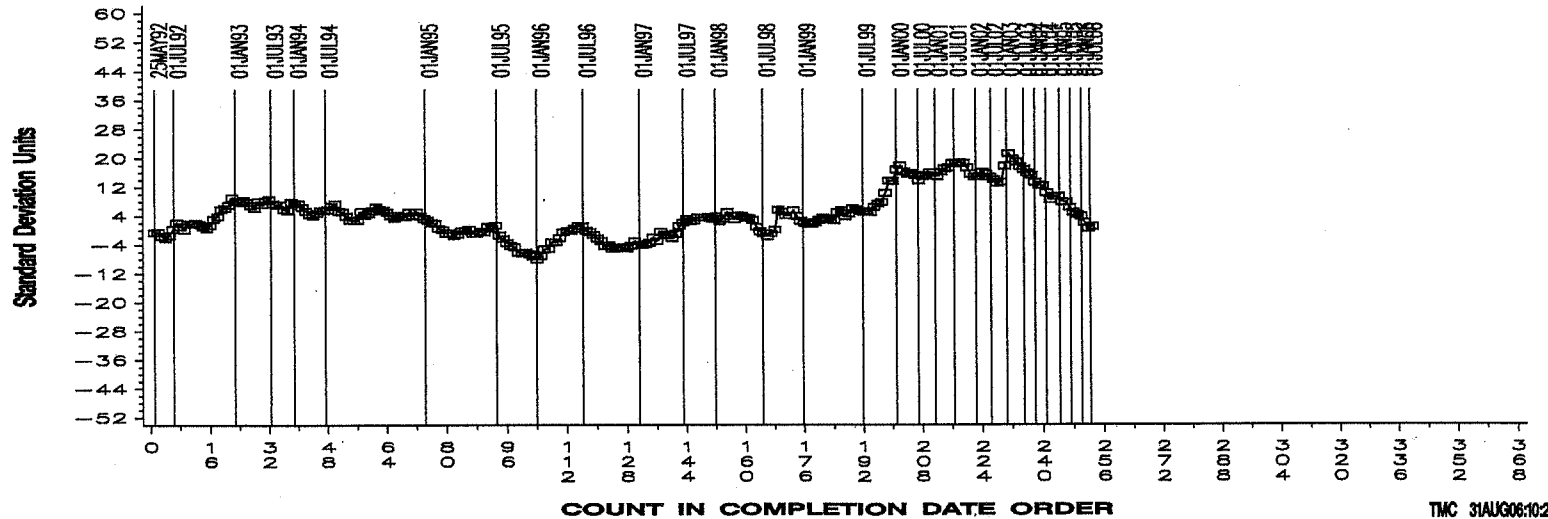
**LTMS Severity Analysis**



**LTMS Precision Analysis**



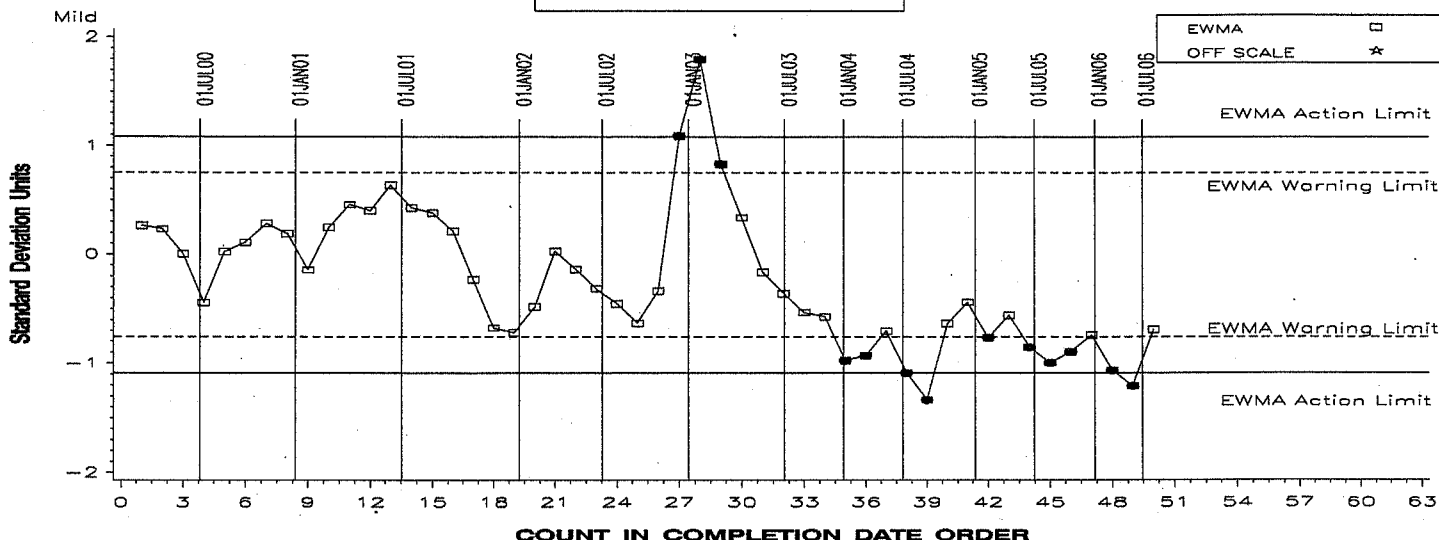
**CUSUM Severity Analysis**



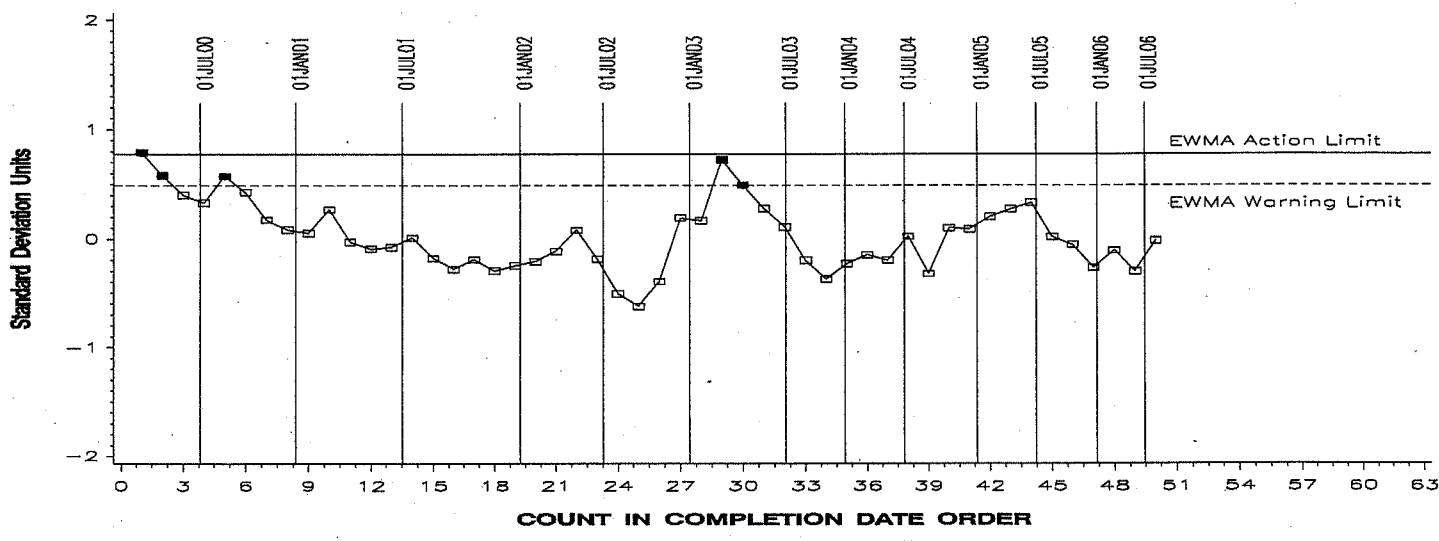
# HTCT INDUSTRY OPERATIONALLY VALID DATA

## Last 50 Test Results END OF TEST CYCLES

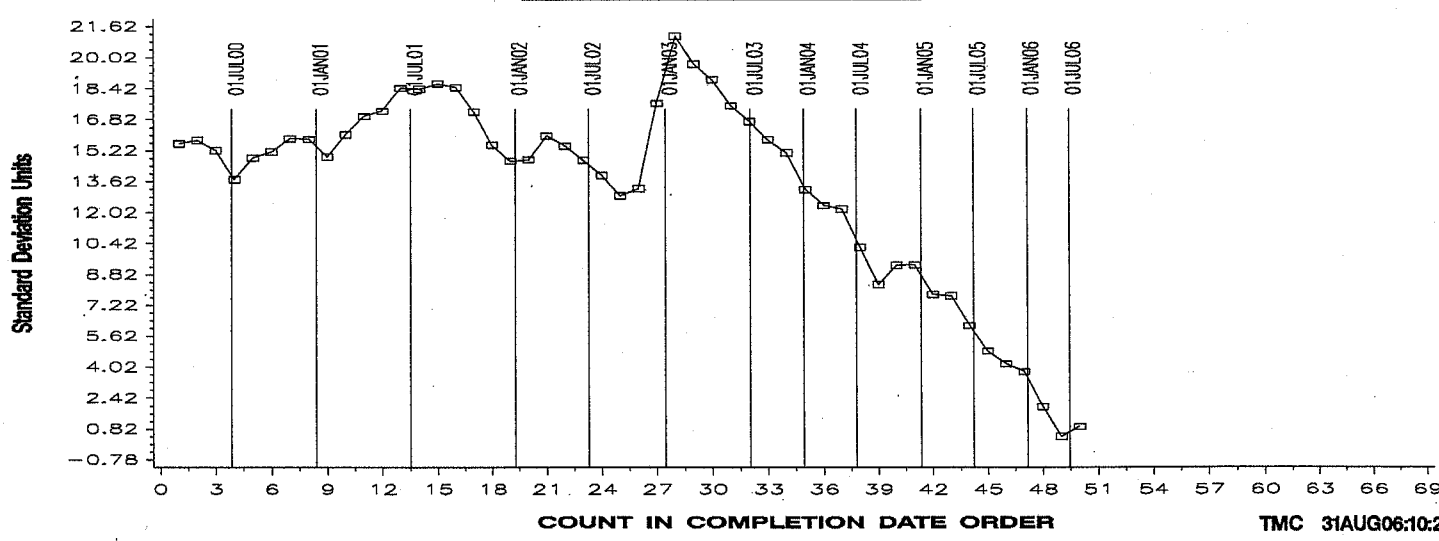
**LTMS Severity Analysis**



**LTMS Precision Analysis**

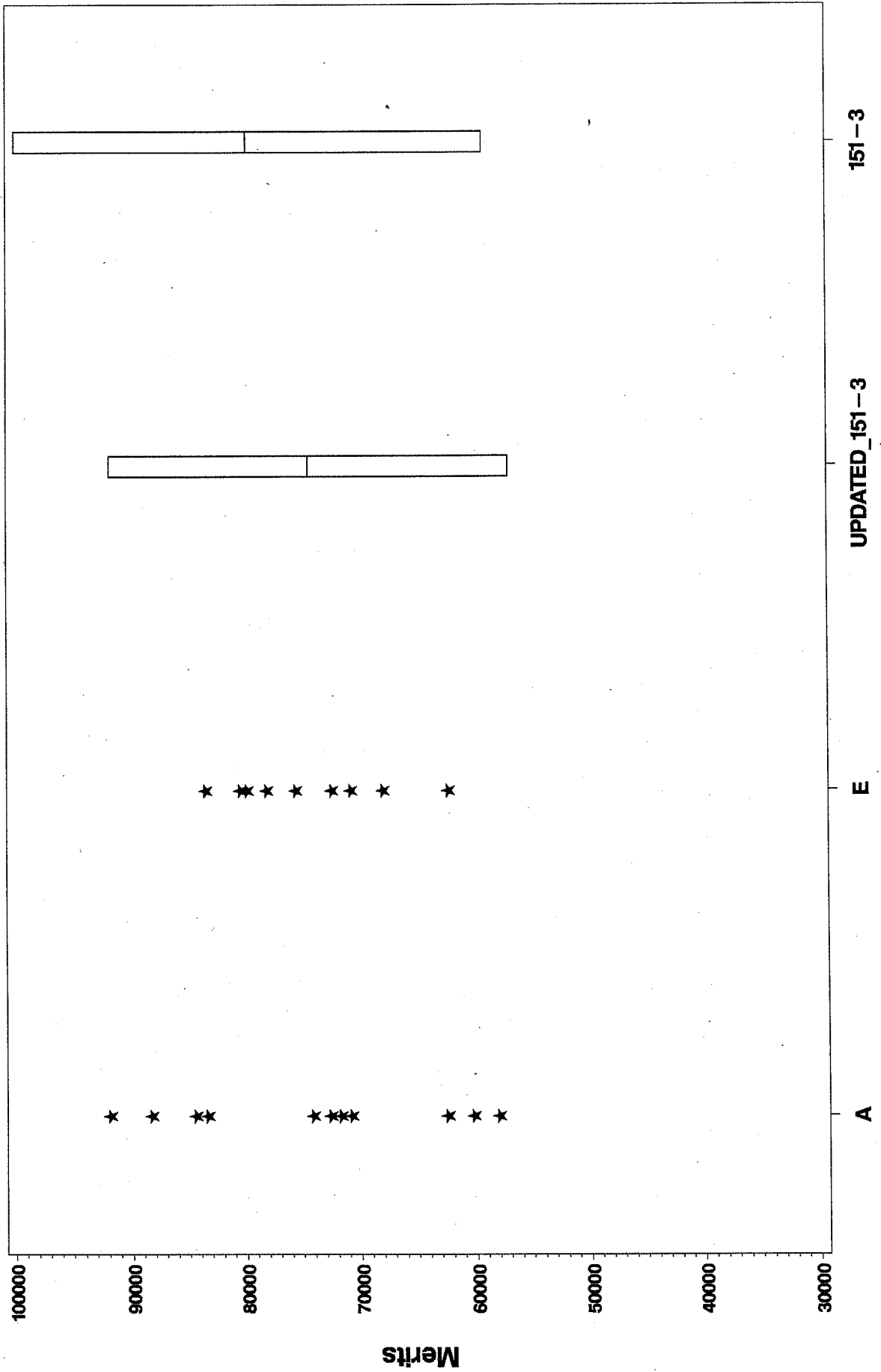


**CUSUM Severity Analysis**



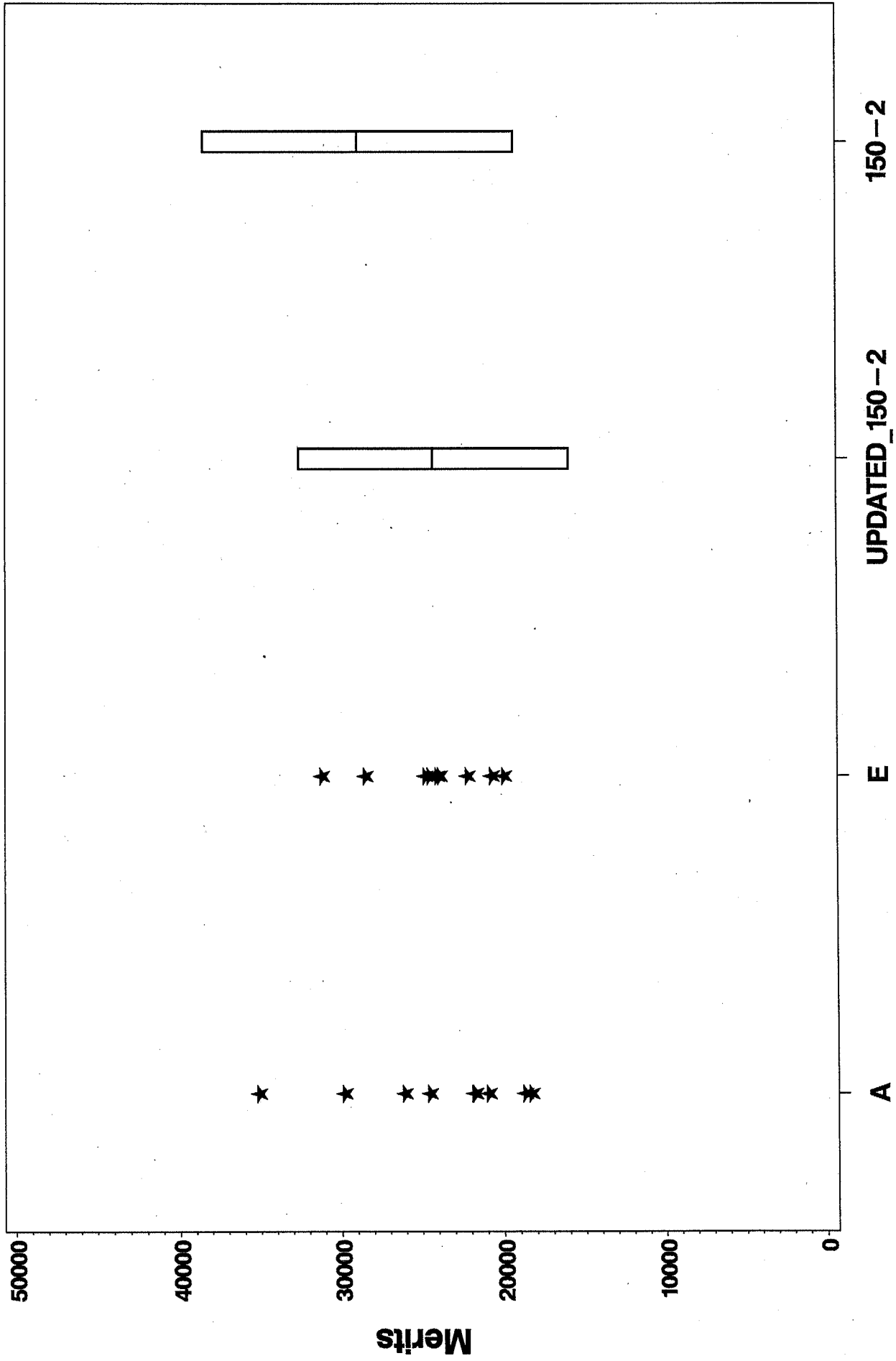
**HTCT Reference Oil 151-3, Configuration 2 Data  
 Updated Target Data Set and Shewhart Severity Limits**

CYCLES



# HTCT Reference Oil 150-2, Configuration 2 Data Updated Target Data Set and Shewhart Severity Limits

CYCLES



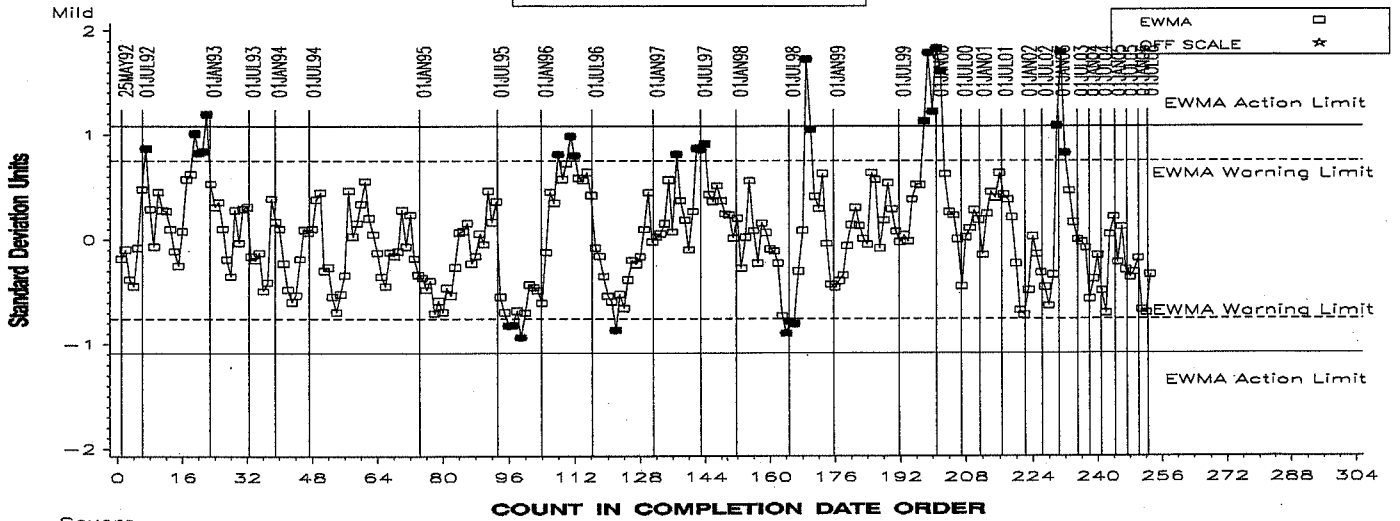


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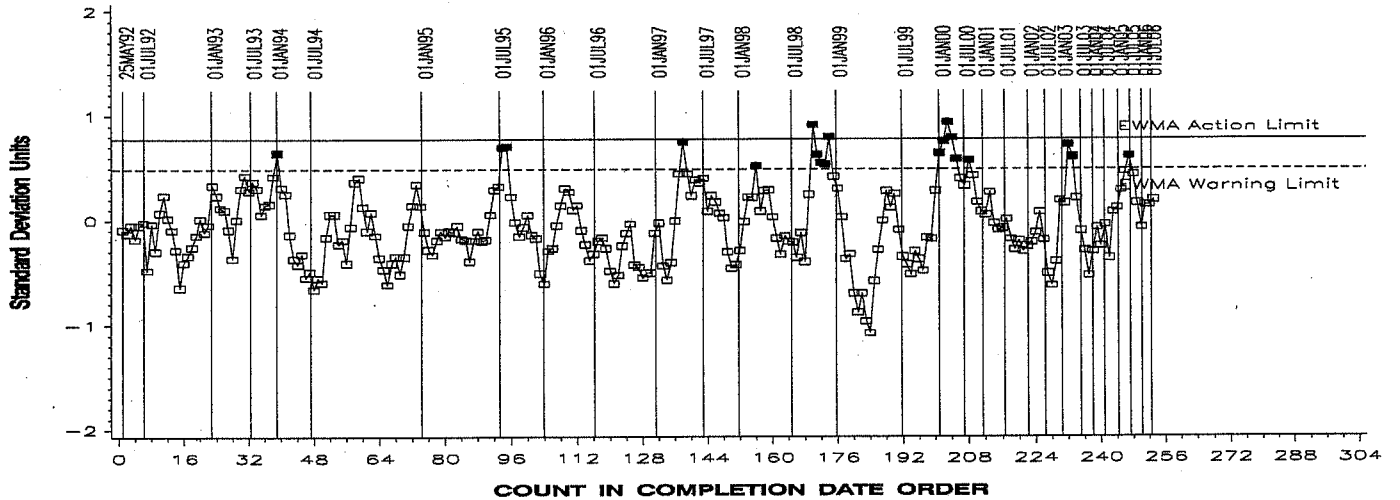
USING UPDATED TEST TARGETS

END OF TEST CYCLES

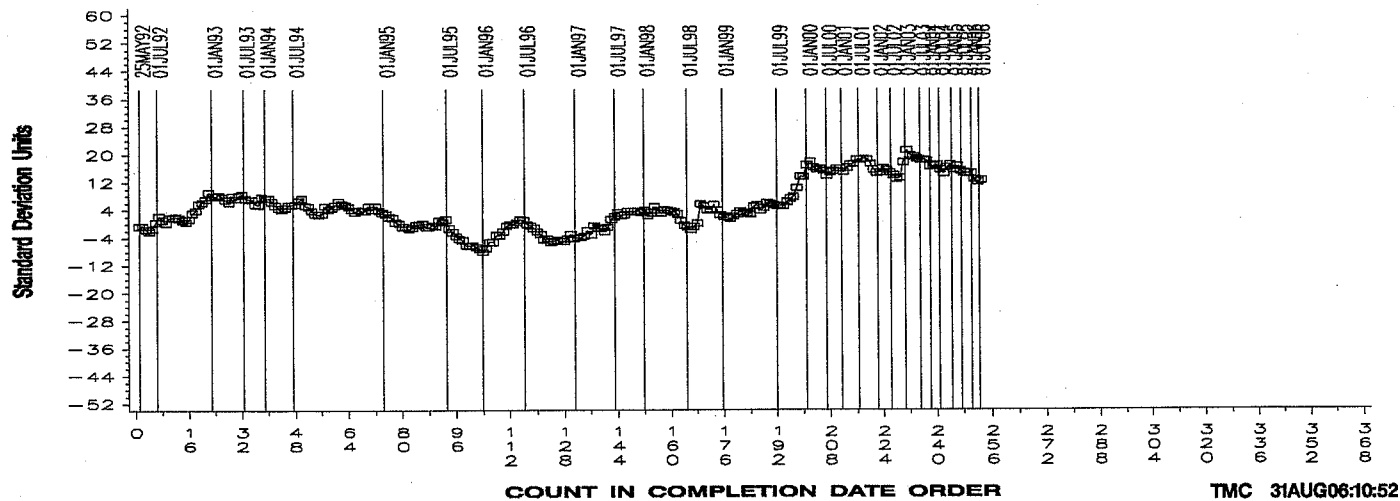
LTMS Severity Analysis



LTMS Precision Analysis



CUSUM Severity Analysis

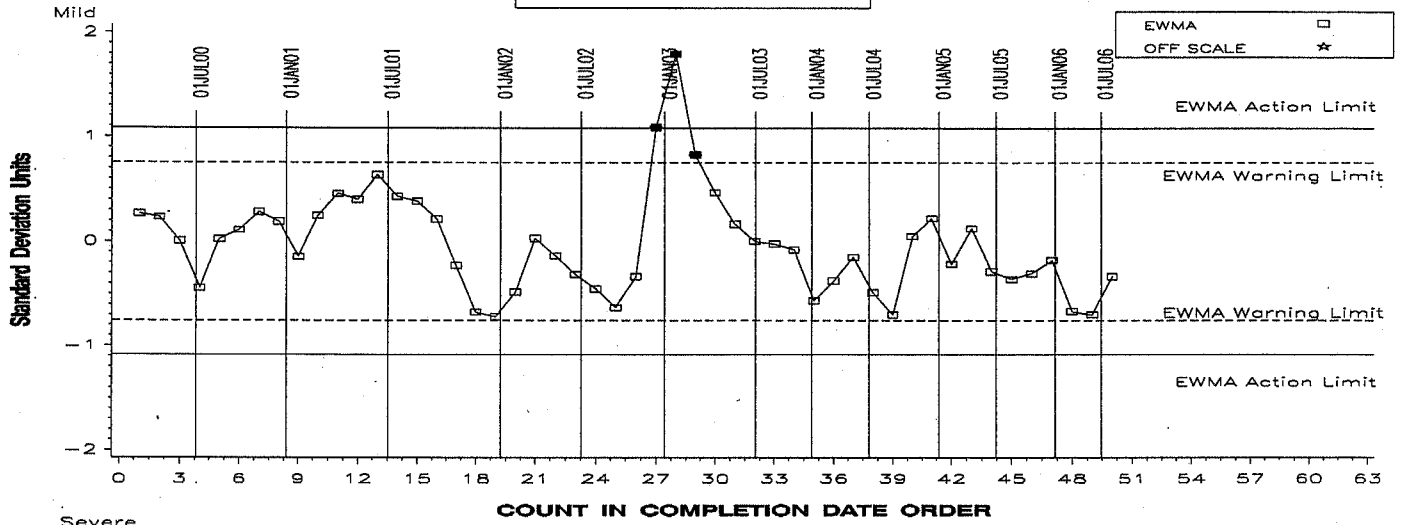


# HTCT INDUSTRY OPERATIONALLY VALID DATA

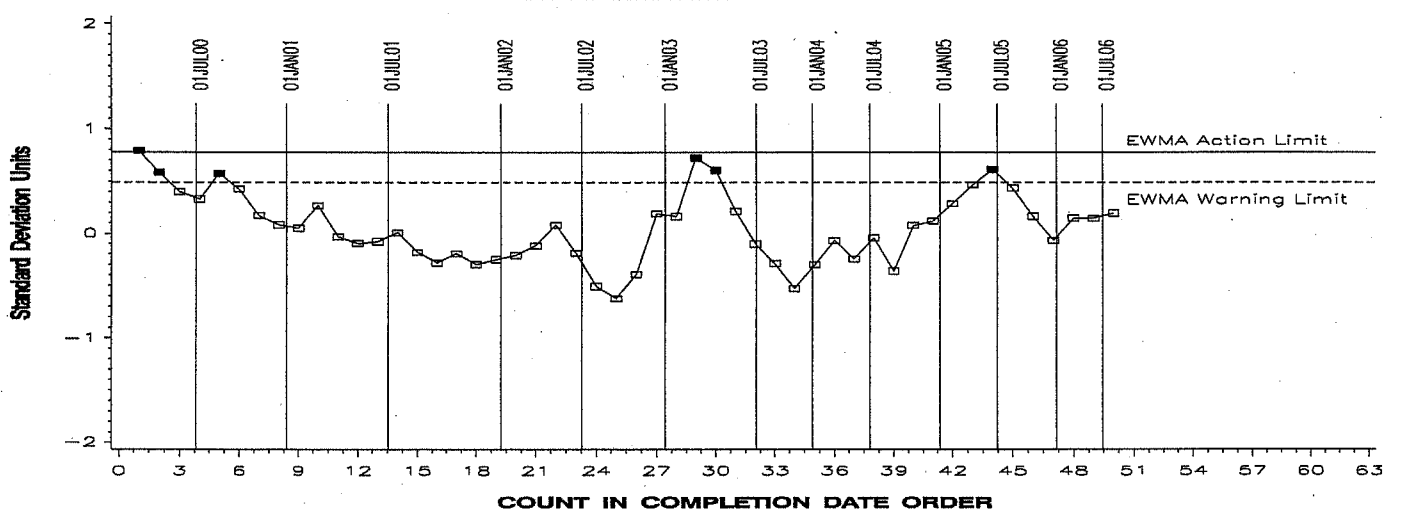
## USING UPDATED TEST TARGETS

### END OF TEST CYCLES

**LTMS Severity Analysis**



**LTMS Precision Analysis**



**CUSUM Severity Analysis**

