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**Committee D02 on PETROLEUM PRODUCTS AND LUBRICANTS**

*Chairman:* KENNETH O. HENDERSON, Cannon Instrument Co., 2139 High Tech Road, State College, PA 16803, (814) 353-8000, Fax: (814) 353-8007, e-mail: [kenohenderson@worldnet.att.net](mailto:kenohenderson@worldnet.att.net)  
*First Vice-Chairman:* BEN R. BONAZZA, TI Group Automotive Systems, Caro Research Center, 326 Green Street, Caro, MI, 48723 (989) 673-8181 ext. 227, Fax: (989) 673-3241, e-mail: [bbonazza@us.tiauto.com](mailto:bbonazza@us.tiauto.com)  
*Second Vice-Chairman:* JANET L. LANE, ExxonMobil Research & Engrg., 600 Billingsport Rd, Paulsboro, NJ 08066-0480 (856) 224-3302, Fax: (856) 224-3616, e-mail: [janet.l.lane@exxonmobil.com](mailto:janet.l.lane@exxonmobil.com)  
*First Secretary:* RALPH A. CHERRILLO, Shell Global Solutions (US) Inc., Westhollow Tech Ctr., 3333 Highway 6 South, Houston, TX 77082 (281) 544-8789, Fax: (281) 544-8150, e-mail: [ralph.cherrillo@shell.com](mailto:ralph.cherrillo@shell.com)  
*Second Secretary:* MICHAEL A. COLLIER, Petroleum Analyzer Co. LP, PO Box 206, Wilmington, IL 60481, (815) 458-0216, Fax: (815) 458-0217, e-mail: [macvarlen@aol.com](mailto:macvarlen@aol.com)  
*Staff Manager:* DAVID R. BRADLEY, (610) 832-9681, Fax: (610) 832-9668, e-mail: [dbradley@astm.org](mailto:dbradley@astm.org)

January 24, 2015

Reply to:

Larry Hamilton

The Lubrizol Corporation

29400 Lakeland Blvd.

Wickliffe, Ohio 44092

(440) 347-2326

[Larry.hamilton@lubrizol.com](mailto:Larry.hamilton@lubrizol.com)

ASTM D02.B0.03 L-60-1 Surveillance Panel

Members and Guests:

Attached for your review and comments are the unconfirmed minutes of the November 12, 2014 L-60-1 Surveillance Panel meeting held at Automation Alley, Troy MI.

Please note that this meeting was chaired by Mathew Umerley for Larry Hamilton in his Absence

Please direct any corrections or comments to my attention.

Sincerely,

Larry Hamilton; Chairman

L-60-1 Surveillance Panel

**ASTM L-60-1 (D5704) Surveillance Panel Meeting Minutes**

**November 12, 2014**

**Automation Alley, Troy MI**

**Meeting was called to order at 0900**

**Attendees: voting member in BOLD**

AAM	J. Dharte
Afton	<b>M. Keisler</b> ; D. Bell; J. Chalkley
AMSTA-TAR	No Rep
BASF	O. Dykhno
Eaton	No Rep
ExxonMobil	<b>R. Banas</b> ; P. Kanga
G. M.	No Rep
Intertek	<b>D. Smith</b> ; A. Trader
Lubrizol	<b>M. Umerley (Acting Chairman)</b> ; C. Prengaman; J. Gropp
Meritor	<b>B. McGlone</b> ; T. Muransky
SwRI	<b>R. Warden</b>
TMC	<b>S. Parke</b>
Volvo	No Rep

**16 members in attendance; 7 voting members present**

**Sign-in and review of membership**

The sign-in sheets, identifying attendance and voting membership, is included; **see attachment # 1**

Attendance was taken and voting membership reviewed.

**Review of Agenda**

The Agenda was reviewed and is included; **see attachment # 2 - Agenda**

**Approval of meeting minutes**

Chairman called for a vote to accept the August 13<sup>th</sup> 2014 Surveillance Panel Meeting Minutes.

Motion by R. Warden, 2<sup>nd</sup> C. Prengaman - Passed unanimously 7/0/0

## V-Ring Oil Seal Discussion

It was found that in the past that the V Ring helped reduce leaking. This was an oil consumption problem across the industry.

A. Trader shared their rig(s) don't appear to need the V Ring seal to stop leaking.

Most labs weren't comfortable to eliminate the V Ring.

J. Gropp is uncomfortable with having something optional.

S. Parke doesn't believe the data has been looked at in any detail to see if the V Ring stopped the previous leaking issues.

D. Smith shared that in his experience leaks were usually attributed to improper build, misalignment of the back plate, etc.

It is generally believed that oil consumption level can effect test severity.

There is concern from the group to take the V Ring out – some labs will continue to use it.

### Procedure Comments:

The procedure should be address for consistency sake,

### *Proposed Changes*

*8.7.4 Install the lip seals and O-ring seal in the seal plate. (Text removed from 8.7.4)*

*8.7.5 Install the seal plate in the gear case, using the flat washers to protect the seal plate surface from damage. Torque the seal plate retaining studs to approximately 25 lbf-in. (approximately 2.8 Nm)*

*8.7. x Install a v-ring seal on upper and lower shafts.*

M. Keisler motioned for procedural changes as listed above, 2<sup>nd</sup> by D. Smith –

Passed Unanimously 7-0-0

## Test & Rater Data Presentation by S. Parke

No attachment, as document was 48 pages. See E-Mail sent by S. Parke 11/10/2014 to ASTM panel members.

There is some scatter in ratings.

J. Gropp requested that the rating workshop data be updated moving forward in time.

## TMC 155-1 Discussion

TMC 155-1 is intended as a replacement for 151-2 with similar performance. There are currently 9 runs on 155-1. See attachment #3 for plots.

J. Gropp - the data is encouraging so far.

38 cans of 151-2 remain.

This will be brought up at a later date to allow more data to be generated.

C. Prengaman motioned: *Until oil 155-1 is approved for testing, run a 155-1 oil prior to the instrument calibration that is conducted before calibration tests.* 2<sup>nd</sup> by R. Warden – Passed unanimously 7-0-0

## New Business

There was no New Business.

## Adjournment

M. Keisler Move to adjourn the meeting, 2<sup>nd</sup> by R. Warden – Passed unanimously 7/0/0

Respectfully Submitted;



Matthew Umerley

For

Larry Hamilton

L-60-1 Surveillance Panel Chairman

**ASTM L-60-1 Surveillance Panel Membership/Mailing List**

*Attachment #1*

**Meeting Date: November 12, 2014**

<b>Present / Initial</b>	<b>Name</b>	<b>Voting Status</b>	<b>Company Name &amp; Address</b>	<b>Phone &amp; Fax &amp; E-Mail</b>
	Aguirre, Nancy	Non-voting	Intertek Automotive Research 5404 Bandera Rd San Antonio TX 78238	Phone: 210-647-9428 Fax: E-Mail: Nancy.Aguirre@intertek.com
	Athey, Allison	<b>Voting</b>	Volvo Group Trucks Technology 13302 Pennsylvania Avenue Hagerstown, Maryland 21740	Phone: 301-573-5684 Fax: E-Mail: allison.athey@volvo.com
<i>PPB</i>	Banas, Rob	<b>Voting</b>	ExxonMobil Fuels Lubricants & Specialties 114 Arcadia Park Drive Canton, GA 30114	Phone: 678-493-3930 Fax: E-Mail: rob.banas@exxonmobil.com
	Barrera, Tony	Non-voting	Intertek Automotive Research 5454 Bandera Rd San Antonio TX 78238	Phone: 210-523-4653 Fax: E-Mail: tony.barrera@intertek.com
<i>DRB</i>	Bell, Don	Non-voting	Afton Chemical Corporation 500 Spring Street Richmond, Virginia 23219	Phone: 804-788-6332 Fax: 804-788-6342 E-Mail: Don.Bell@aftonchemical.com
	Boschert, Tom	Non-voting	Afton Chemical Corporation 500 Spring Street Richmond, Virginia 23219	Phone: 804-788-5202 Fax: 804-788-6342 E-Mail: Tom.Boschert@aftonchemical.com
	Bubonic, Brad	Non-voting	The Lubrizol Corporation 29400 Lakeland Boulevard Wickliffe, Ohio 44092	Phone: 440-347-5321 Fax: 440-347-2878 E-Mail: brad.bubonic@lubrizol.com
	Chambers, Harold	Non-voting	43945 Merrill Rd. Sterling Hts., MI 48314	Phone: (586) 770-4694 Fax: E-Mail: haroldchambers@gmail.com
	Clark, Jeff	Non-voting	ASTM Test Monitoring Center 6555 Penn Avenue Pittsburgh, Pennsylvania 15206	Phone: 412-365-1032 Fax: 412-365-1047 E-Mail: jmf@astmtmc.cmu.edu
	Comfort, Allen	<b>Voting</b>	AMSTA-TR-D/210 (Allen Comfort) U S Army Tank, Automotive, and Armament Command Warren, Michigan 48397-5000	Phone: 586-282-4225 Fax: 586-282-4244 E-Mail: allen.s.comfort.civ@mail.mil

\* Initial to indicate attendance at subject meeting

**ASTM L-60-1 Surveillance Panel Membership/Mailing List**

**Meeting Date: November 12, 2014**

<b>Present / Initial</b>	<b>Name</b>	<b>Voting Status</b>	<b>Company Name &amp; Address</b>	<b>Phone &amp; Fax &amp; E-Mail</b>
<i>JDS</i>	Dharte, John	Non-voting	American Axle 1 Dauch Dr Detroit, MI 48212	Phone: 313 758-4687 Fax: E-Mail: DharteJ@aam.com
	Dwornick, Bridget	Non-voting	AMSTRD-TAR-D/210 6501 E.11 Mile Rd Warren,MI 48397-5000	Phone: 586-282-4221 Fax: 586-282-4244 E-Mail: bridget.dwornick@us.army.mil
	Gottwald, Thomas	Non-voting	Afton Chemical Corporation 500 Spring Street Richmond, Virginia 23219	Phone: 804-788-5230 Fax: 804-788-6358 E-Mail: thomas.gottwald@aftonchemical.com
	Greene, Galen	<b>Voting</b>	BASF Corporation 100 Pash Ave Florham Pash, NJ	Phone: 973-873-4816 Fax: E-Mail: galen.greene@basf.com
<i>JDS</i>	Gropp, Jerry	Non-voting	The Lubrizol Corporation 29400 Lakeland Boulevard Wickliffe, Ohio 44092	Phone: 440-347-1223 Fax: 440-347-1555 E-Mail: jerrold.gropp@lubrizol.com
	Hamilton, Larry	<b>Voting</b>	The Lubrizol Corporation 29400 Lakeland Boulevard Wickliffe, Ohio 44092	Phone: 440-347-2326 Fax: 440-347-2878 E-Mail: larry.hamilton@lubrizol.com
	Hobson, Kevin	Non-voting	Afton Chemical Corporation 500 Spring Street Richmond, Virginia 23219	Phone: 804-788-5375 Fax: 804-788-6358 E-Mail: kevin.hobson@aftonchemical.com
	Huron, John	Non-voting	Chevron Oronite 4502 Centerview Drive, Suite 210 San Antonio, Texas 78228	Phone: 210-731-5609 Fax: 210-731-5699 E-Mail: HURO@ChevronTexaco.com
	Jackson, Matt	Non-voting	Southwest Research Institute 6220 Culebra Road Bldg.209 San Antonio, TX 78238-5166	Phone: (210) 522-6981 Fax: E-Mail: matt.jackson@swri.org
<i>P.R.K.</i>	Kanga, Percy R.	Non-Voting	Commercial Vehicle, Marine & Gas Engine Lubricants ExxonMobil Research & Engineering 600 Billingsport Road Paulsboro, NJ. 08066	Phone: 856-224-2094 Fax: 856-224-3613 E-Mail: percy.r.kanga@exxonmobil.com

\* Initial to indicate attendance at subject meeting

**ASTM L-60-1 Surveillance Panel Membership/Mailing List**





**Meeting Date: November 12, 2014**

<b>Present / Initial</b>	<b>Name</b>	<b>Voting Status</b>	<b>Company Name &amp; Address</b>	<b>Phone &amp; Fax &amp; E-Mail</b>
	Kearney, Bill	Non-voting	Afton Chemical Corporation 2000 Town Center Southfield, MI 48075	Phone: 248-350-0640 Fax: E-Mail: bill.kearney@aftonchemical.com
<i>MSK</i>	Keisler, Marc	<b>Voting</b>	Afton Chemical Corporation 500 Spring Street Richmond, Virginia 23219	Phone: 804-788-5617 Fax: E-Mail: marc.keisler@aftonchemical.com
	Koehler, Brian	Non-voting	Southwest Research Institute 6220 Culebra Road Bldg.209 San Antonio, TX 78238-5166	Phone: (210) 522-3588 Fax: (210) 684-7523 E-Mail: bkoehler@swri.org
	Koglin, Cory	Non-voting	Afton Chemical Corporation 2000 Town Center Suite 1160 Southfield, MI 48075	Phone: 248-996-0386 Fax: E-Mail:
	Marougy, Thelma	Non-voting	Eaton Corporation 26201 Northwestern Highway Southfield, Michigan 48037	Phone: 248-354-6985 Fax: 248-354-2739 E-Mail: thelmaemarougy@eaton.com
<i>AM</i>	McGlone, Bruce	<b>Voting</b>	Meritor 2135 West Maple Troy, Michigan 48084	Phone: 248-435-9929 Fax: 248-435-6602 E-Mail: Bruce.McGlone@meritor.com
	Mosher, Donna	Non-voting	Eaton Corporation 13100 E Michigan Ave Galesburg, Michigan 49053	Phone: 269-342-3039 Fax: E-Mail: donnammosher@eaton.com
<i>JM</i>	Muransky, Troy	Non-voting	Meritor 2135 West Maple Troy, Michigan 48084	Phone: 248-435-1409 Fax: E-Mail: troy.muransky@meritor.com
	O'Brien, Cheryl	Non-voting	General Motors	Phone: 248-343-7347 Fax: E-Mail: cheryl.obrien@gm.com
<i>SP</i>	Parke, Scott	<b>Voting</b>	ASTM Test Monitoring Center 6555 Penn Avenue Pittsburgh, Pennsylvania 15206	Phone: 412-365-1030 Fax: 412-365-1047 E-Mail: fmf@astmtmc.cmu.edu

\* Initial to indicate attendance at subject meeting

**ASTM L-60-1 Surveillance Panel Membership/Mailing List**

**Meeting Date: November 12, 2014**

<b>Present / Initial</b>	<b>Name</b>	<b>Voting Status</b>	<b>Company Name &amp; Address</b>	<b>Phone &amp; Fax &amp; E-Mail</b>
	Prengaman, Chris	Non-voting	The Lubrizol Corporation 29400 Lakeland Boulevard Wickliffe, Ohio 44092	Phone: 440-347-4225 Fax: 440-347-2878 E-Mail: chris.prengaman@lubrizol.com
	Recinos, Will	Non-voting	Afton Chemical Corporation 500 Spring Street Richmond, Virginia 23219	Phone: 804-788-5323 Fax: E-Mail: william.recinos@aftonchemical.com
	Shah, Rajesh	Non-voting	Koehler Instrument Company 1595 Sycamore Avenue Bohemia, New York 11716	Phone: 516-589-3800 Fax: 516-589-3815 E-Mail:
	Smith, Dale	<del>Non</del> -voting	Intertek Automotive Research 5404 Bandera Rd San Antonio TX 78238	Phone: 412-855-6854 Fax: E-Mail: Dale.Smith@intertek.com
	Sullivan, Bill	Non-voting	WTSullivan, Inc. 5 Scheiber Drive Brick, New Jersey 08723	Phone: 908-930-3512 Fax: 267-220-7750 E-Mail: wtsullivan@comcast.net
	Suresh, Arunya	Non-voting	BASF Corporation 100 Pash Ave Florham Pash, NJ	Phone: 914-262-8715 Fax: E-Mail: arunya.suresh@basf.com
	Thorpe, Ryan	Non-voting	Southwest Research Institute Culebra Road Bldg.209 San Antonio, TX 78238-5166	Phone: (210) 522-6404 Fax: (210) 684-7523 E-Mail: ryan.thorpe@swri.org
	Trader, Angela	<del>NON</del> - <b>Voting</b>	Intertek Automotive Research 5404 Bandera Rd San Antonio TX 78238	Phone: 210-706-1533 Fax: E-Mail: angela.trader@intertek.com
	Umerley, Matt	Non-voting	The Lubrizol Corporation 29400 Lakeland Boulevard Wickliffe, Ohio 44092	Phone: 440-347-4589 Fax: 440-347-2878 E-Mail: matthew.umerley@lubrizol.com
	Ved, shintan	Non-voting	Ford- Trans & Driveline Lubrication 35500 Plymouth Rd. Livonia, MI 48150	Phone: 313-805-9695 Fax: 267-220-7750 E-Mail: cved@ford.com

\* Initial to indicate attendance at subject meeting



# ASTM L-60-1 Surveillance Panel Membership/Mailing List

**Meeting Date: November 12, 2014**

Present / Initial	Name	Voting Status	Company Name & Address	Phone & Fax & E-Mail
RW	Warden, Rebecca	Voting	Southwest Research Institute 6220 Culebra Road Bldg.209 San Antonio, TX 78238-5166	Phone: (210) 522-6266 Fax: (210) 522-6858 E-Mail: Rebecca.Warden@swri.org
	Villahermosa, Luis	Non-voting	AMSTA-TR-D/210 (Luis Villahermosa) U S Army Tank, Automotive, and Armament Command Warren, Michigan 48397-5000	Phone: 586-574-4207 Fax: 586-574-4123 E-Mail: villahel@cc.tacom.army.mil
	Zakarian, Jack	Non-voting	Chevron Products Company 100 Chevron Way Richmond, California 94802-0627	Phone: 510-242-3595 Fax: 510-242-3758 E-Mail: jaza@chevron.com
	Zreik, Khaled	Non-voting	General Motors	Phone: 248-977-9214 Fax: E-Mail: khaled.zreik@gm.com
OD	Dykhno, Olga		BASF	Phone: Fax: E-Mail: olga.dykhno@basf.com
JMC	CHALKLEY, JARROD		AFTON	Phone: Fax: E-Mail: JARROD.CHALKLEY@AFTONCHEMICAL.COM
				Phone: Fax: E-Mail:
				Phone: Fax: E-Mail:
				Phone: Fax: E-Mail:
				Phone: Fax: E-Mail:
				Phone: Fax: E-Mail:

\* Initial to indicate attendance at subject meeting

**ASTM L-60-1 Surveillance Panel Membership/Mailing List**

**Meeting Date: November 12, 2014**

Present / Initial	Name	Voting Status	Company Name & Address	Phone & Fax & E-Mail
				Phone: Fax: E-Mail:
				Phone: Fax: E-Mail:
				Phone: Fax: E-Mail:
				Phone: Fax: E-Mail:
				Phone: Fax: E-Mail:
				Phone: Fax: E-Mail:

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## L-60-1 Surveillance Panel

November 12, 2014

Automation Alley, Troy, Michigan

### Agenda

For those not traveling, the call-in number will be 216-706-7052; Code 324160

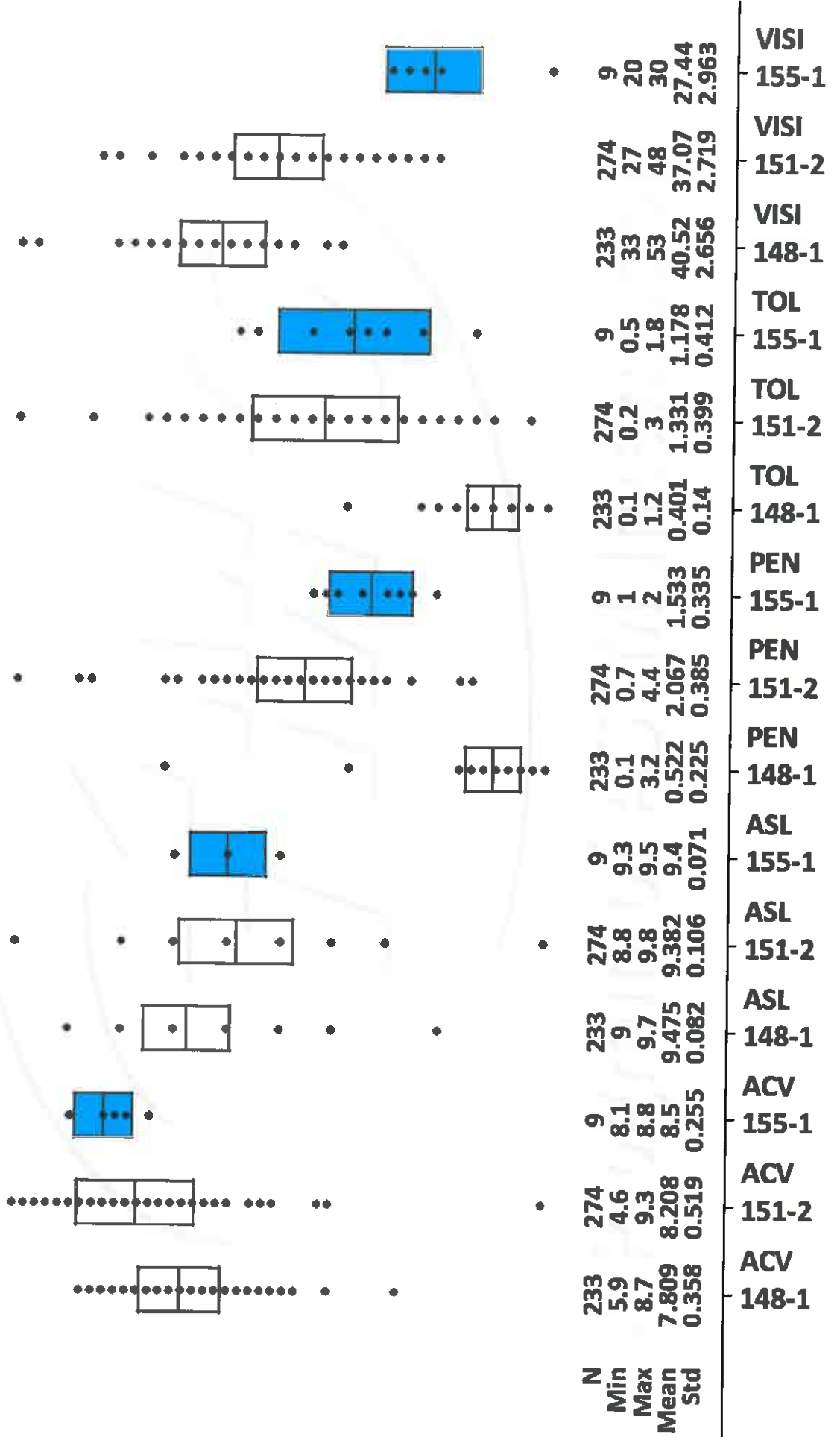
- I. Call to Order
- II. Membership and agenda review
- III. Approval of the August 13, 2014 SP meeting minutes.
- IV. V Ring Oil Seal; request to add to procedure as optional.  
Change to Optional 6.1.15 and add as optional V seal to 8.7.2 and remove sealant in 8.7.4
- V. Review of Lab Severity by TMC - Scott Parke
- VI. New Business
- VII. Adjournment

### Voting Members

1. Allison Athey
2. Allen Comfort
3. Bob Banas
4. Brian Koehler / Rebecca Warden
5. Bruce McGlone
6. Dale Smith / Angela Trader
7. Galen Greene
8. Larry Hamilton
9. Marc Keisler
10. Scott Parke

# L-60-1 155-1 Results

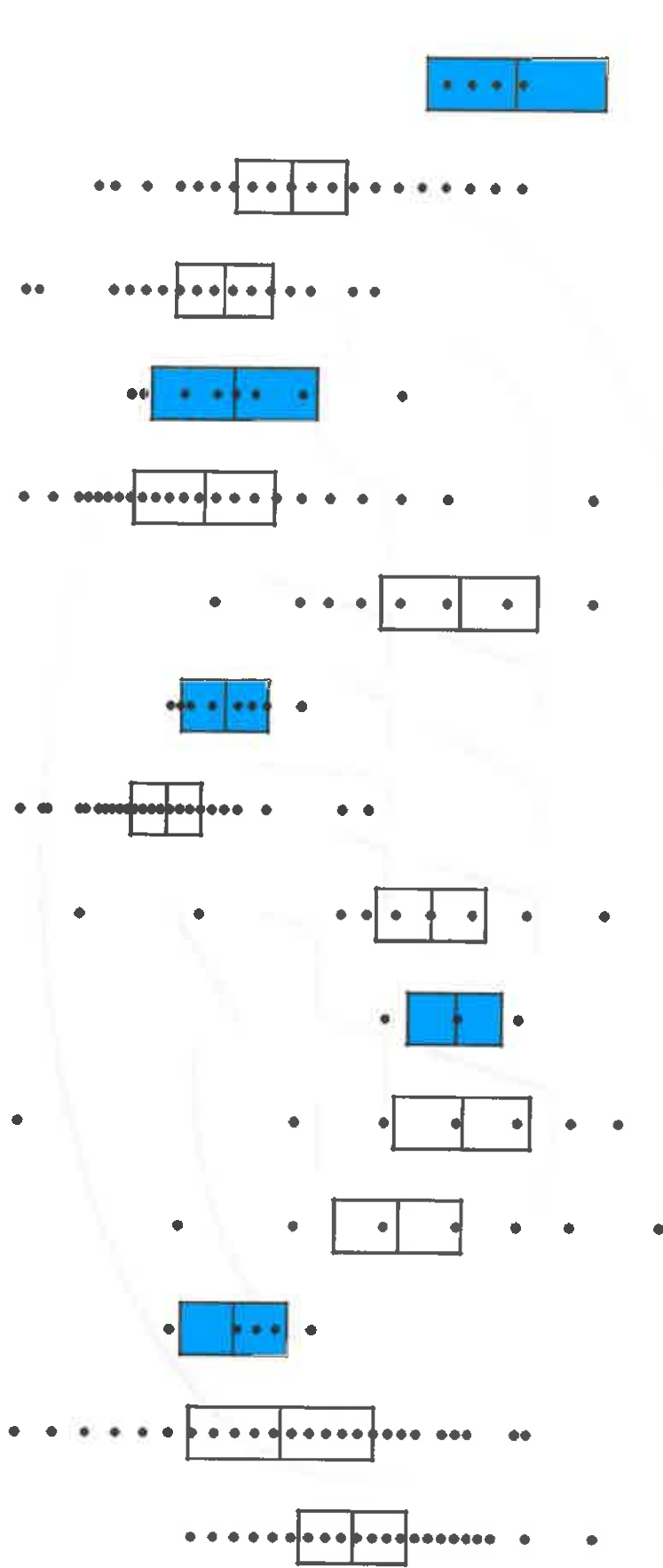
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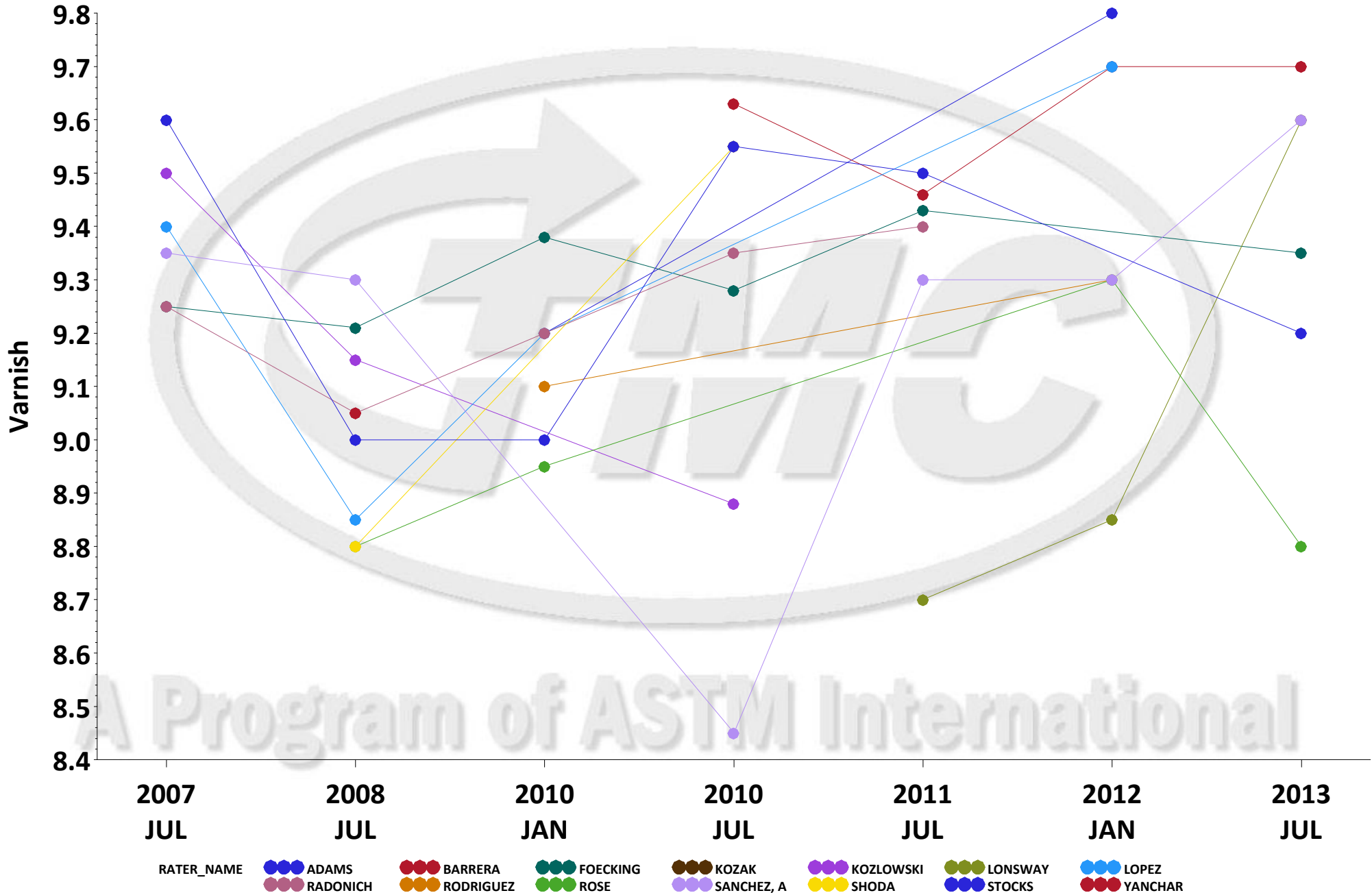


N	274	9	274	9	274	9	274	9	274	9	274	9
Min	0.364	1.45	-0.18	0.357	-2.3	-0.36	-2.3	-0.69	-1.61	-2.3	-1.61	-0.69
Max	1.901	1.992	1.609	0.693	1.163	1.482	0.693	0.588	1.099	0.182	1.099	0.588
Mean	1.283	1.747	0.496	0.517	-0.7	0.71	0.405	0.101	0.236	-0.98	0.236	0.101
Std	0.206	0.203	0.171	0.119	0.289	0.183	0.229	0.392	0.333	0.372	0.333	0.392

ACVTI 155-1  
 ACVTI 151-2  
 ACVTI 148-1  
 ASLTI 155-1  
 ASLTI 151-2  
 ASLTI 148-1  
 PENTI 155-1  
 PENTI 151-2  
 PENTI 148-1  
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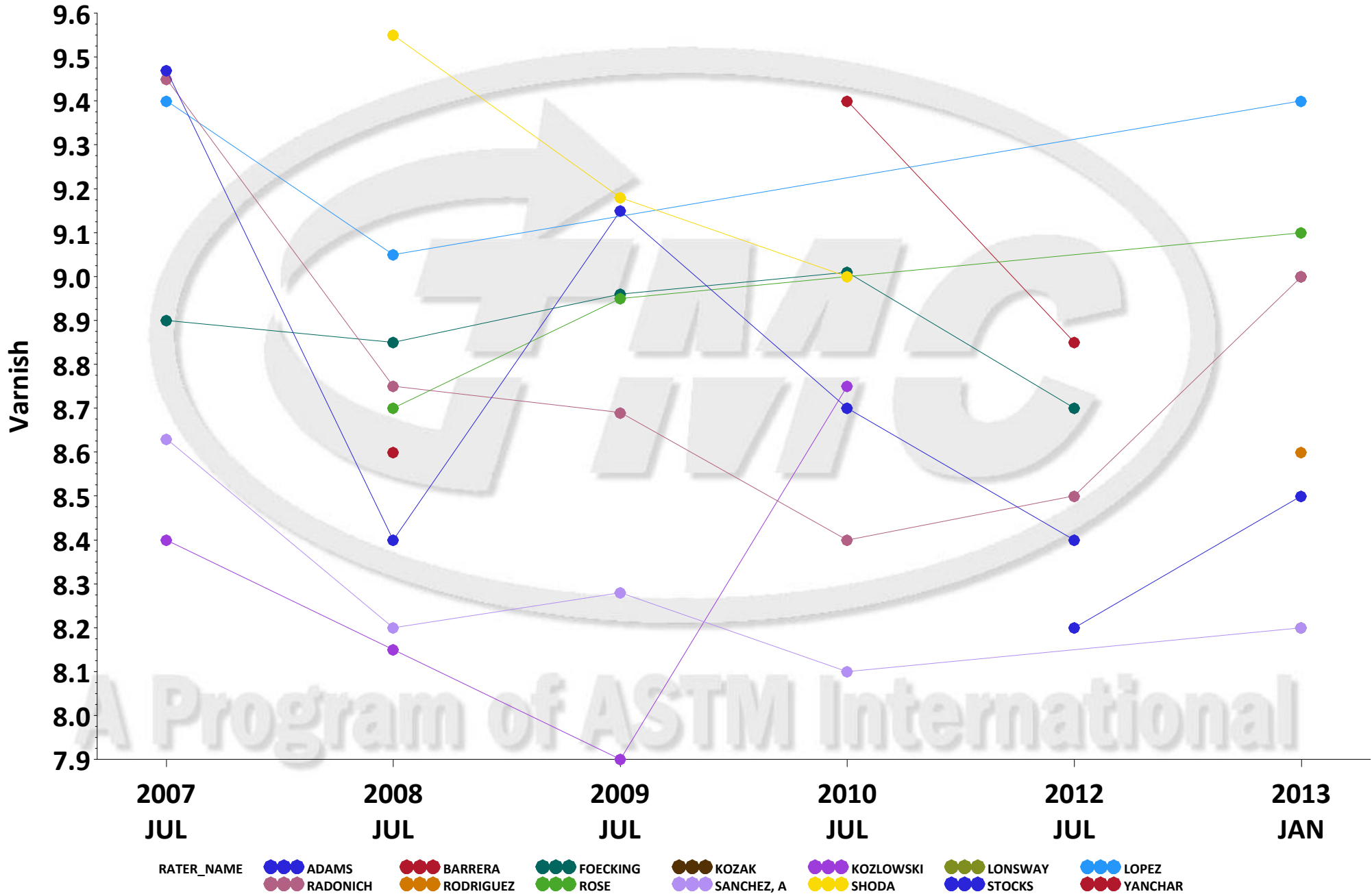
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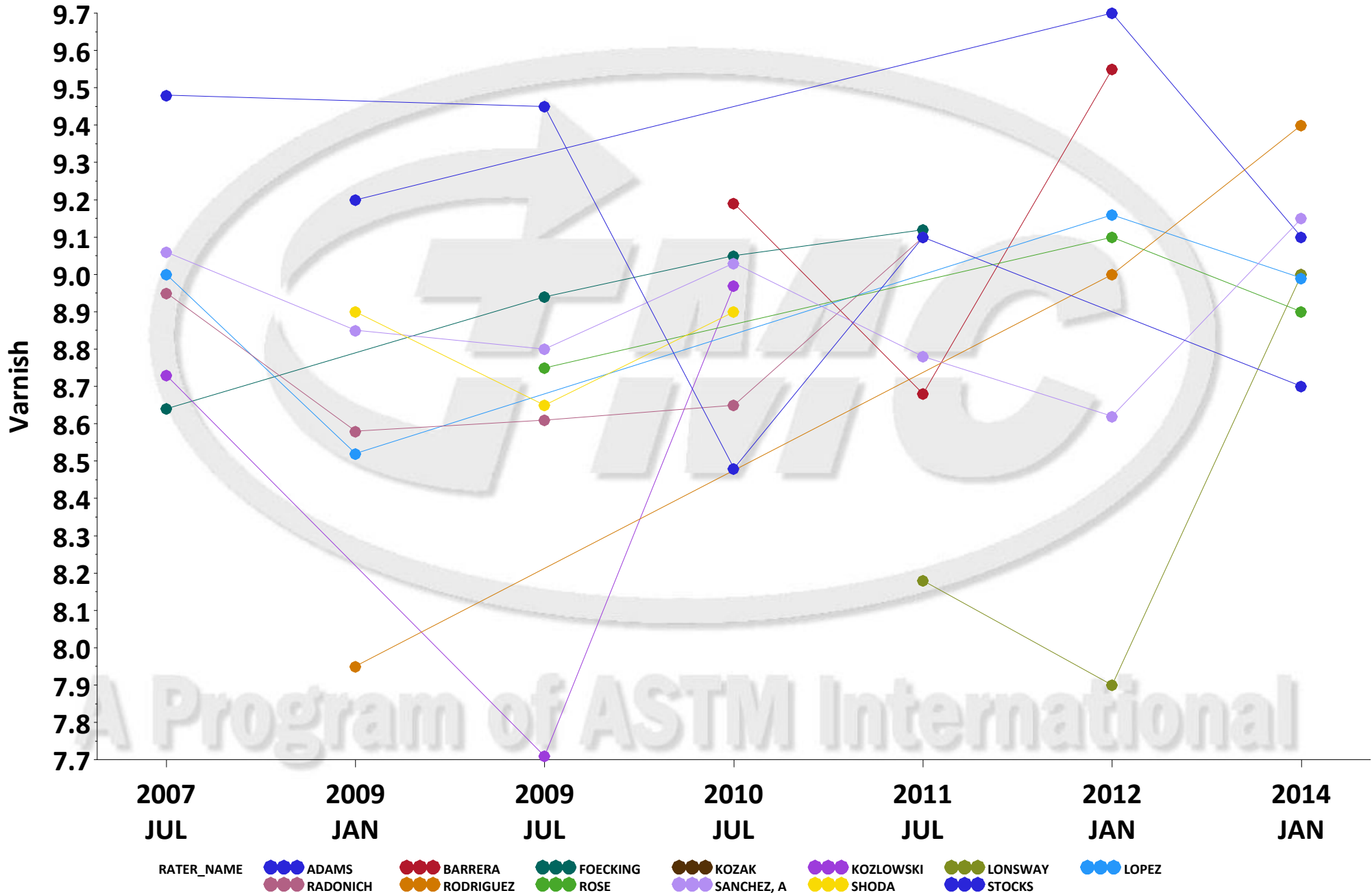
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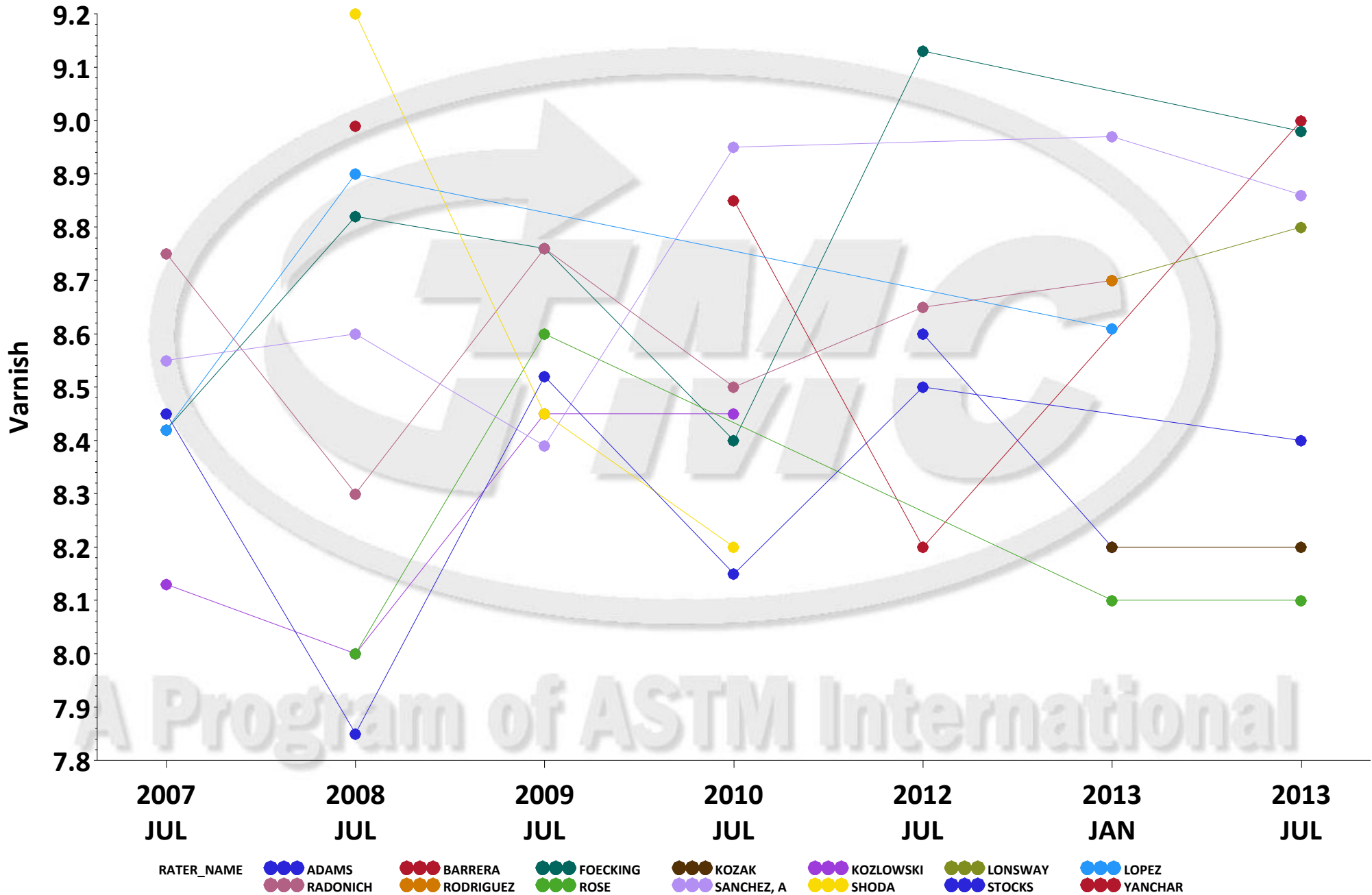
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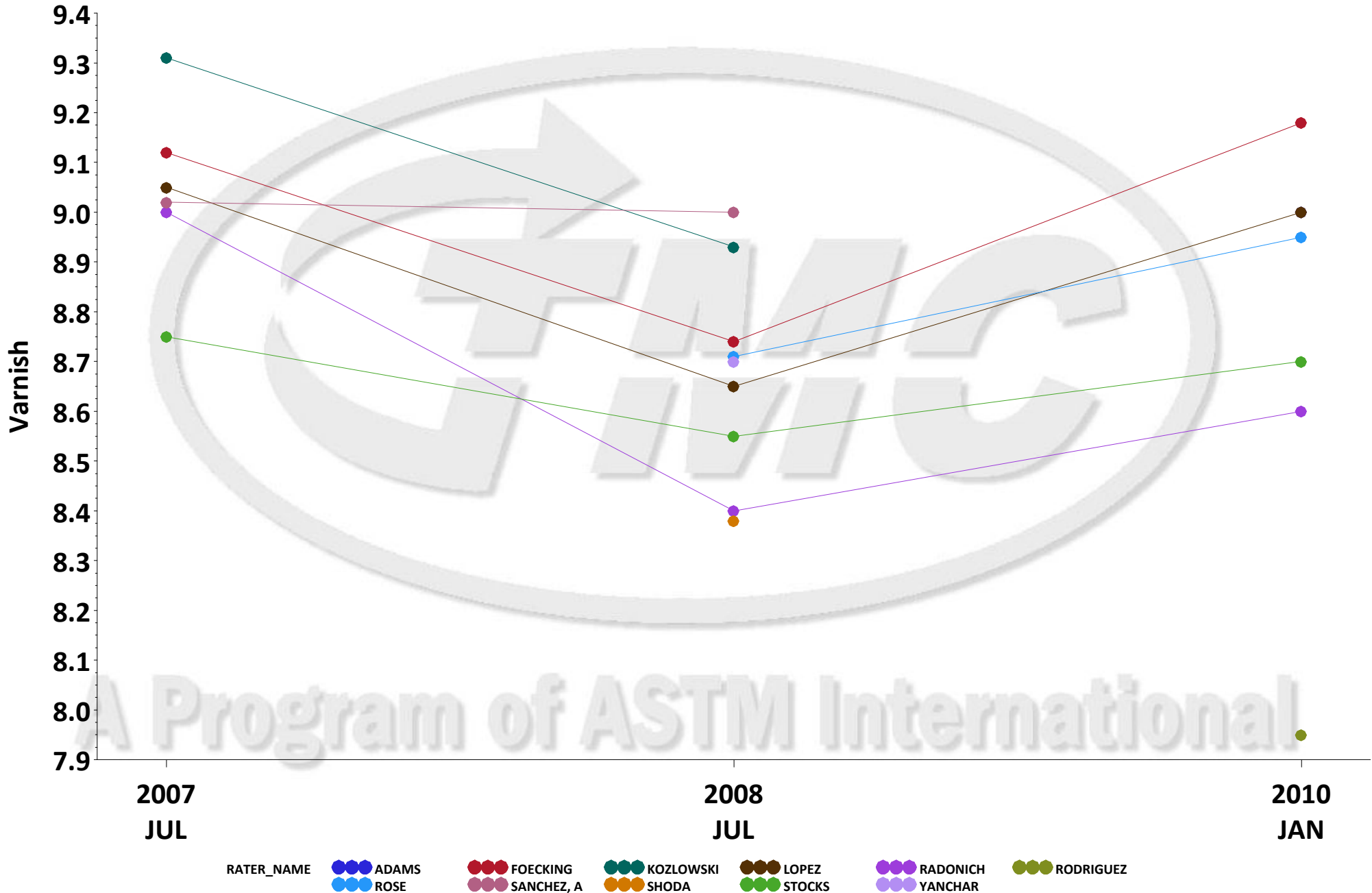
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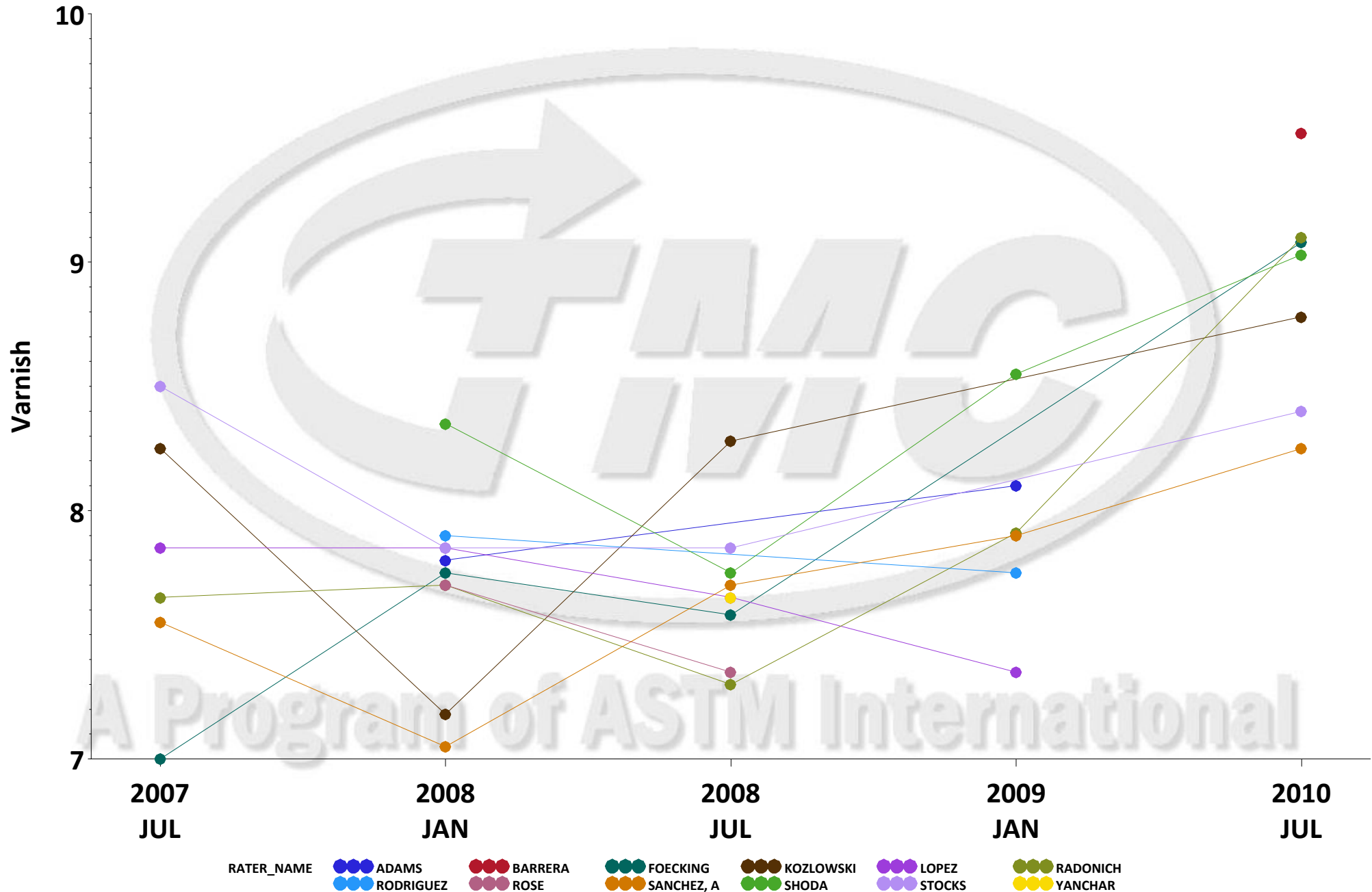
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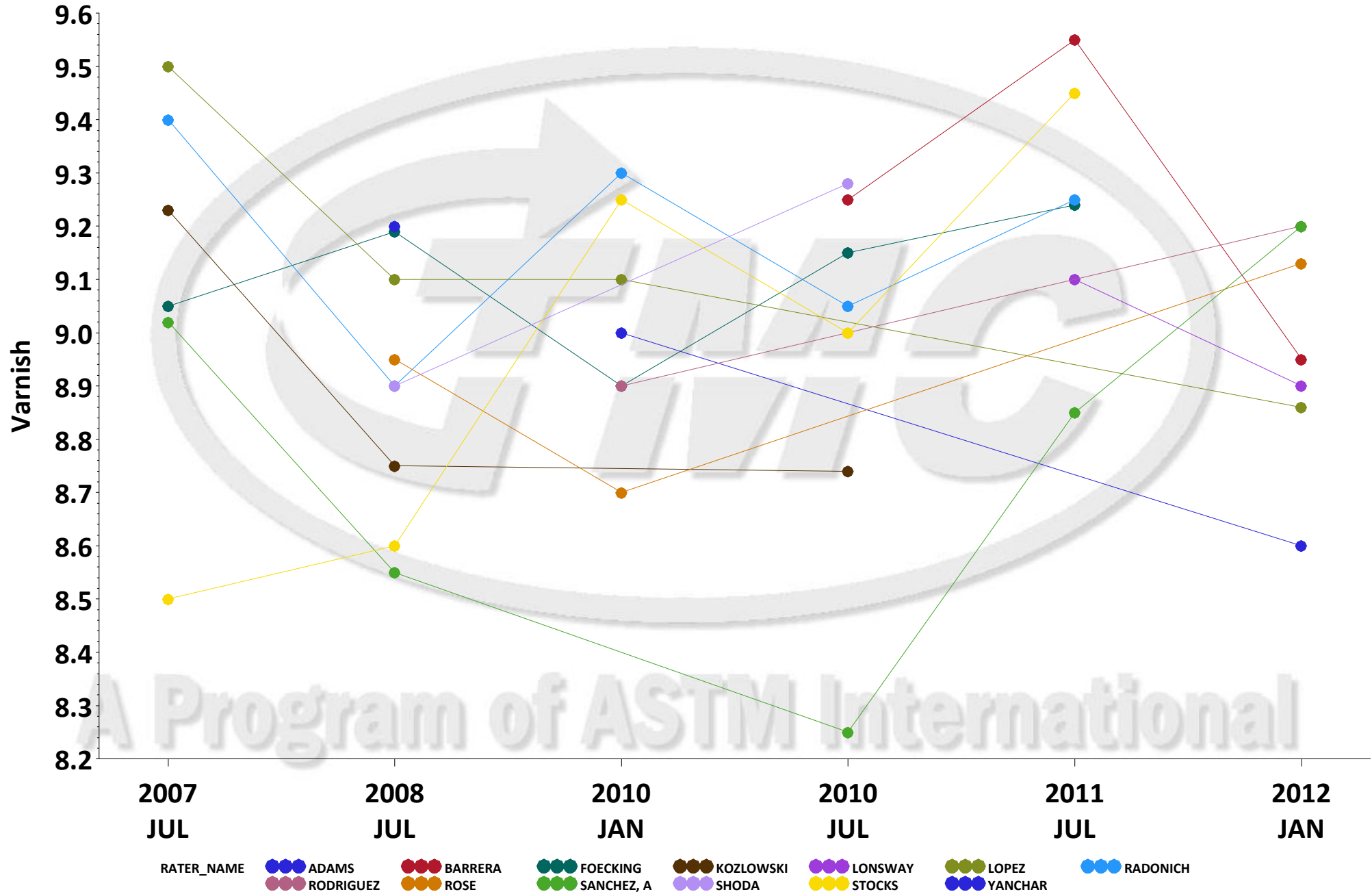
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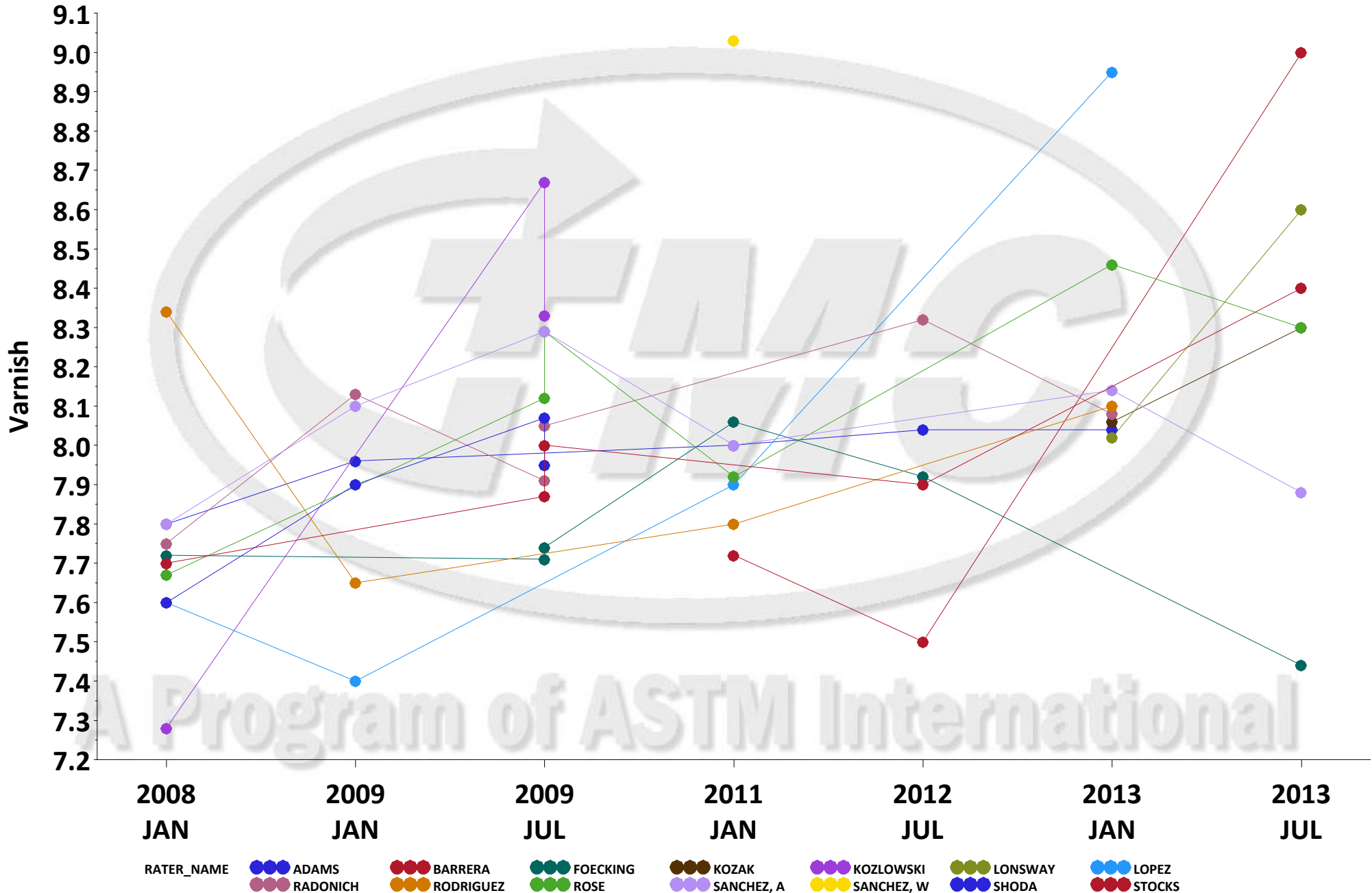
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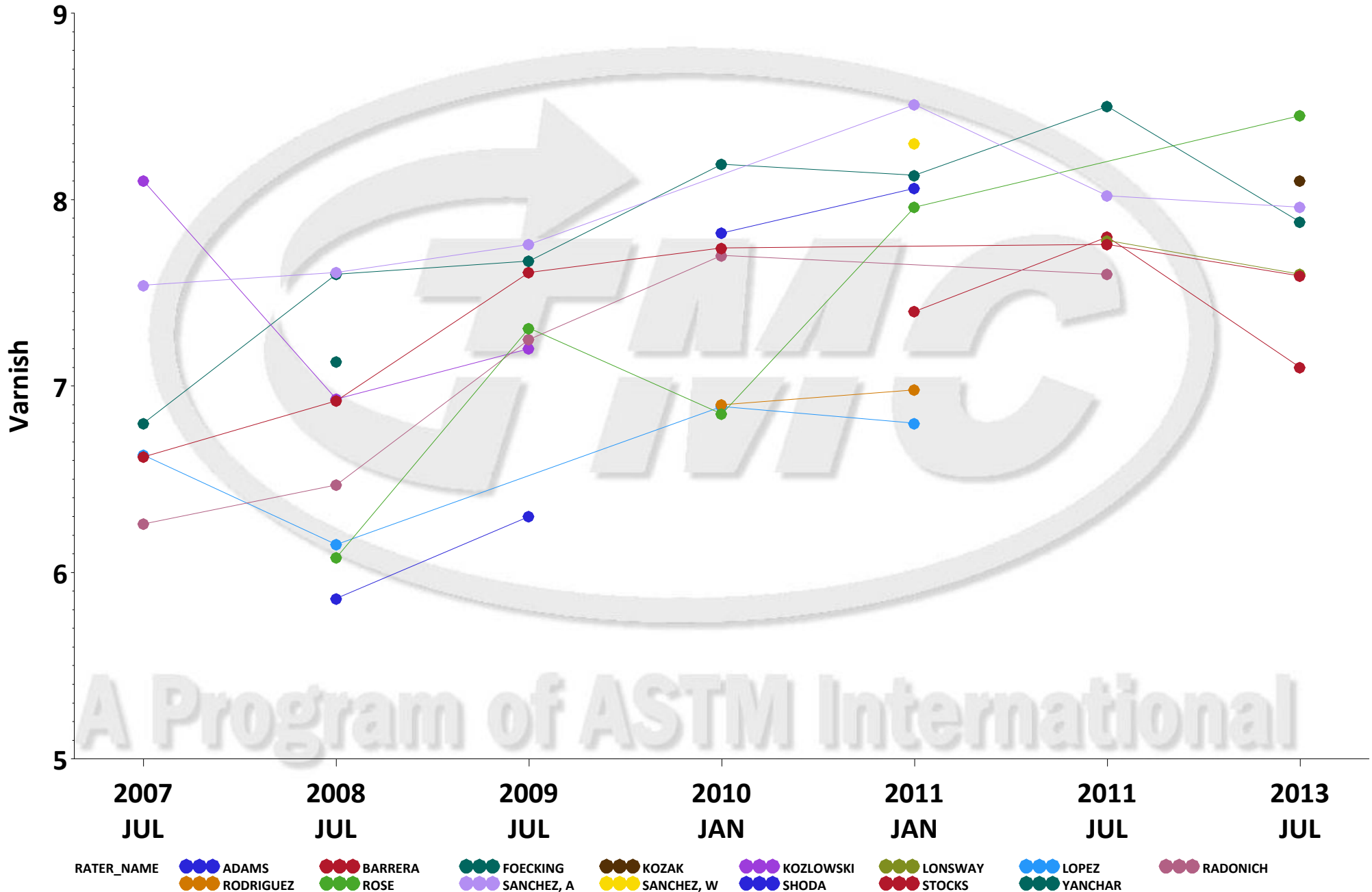
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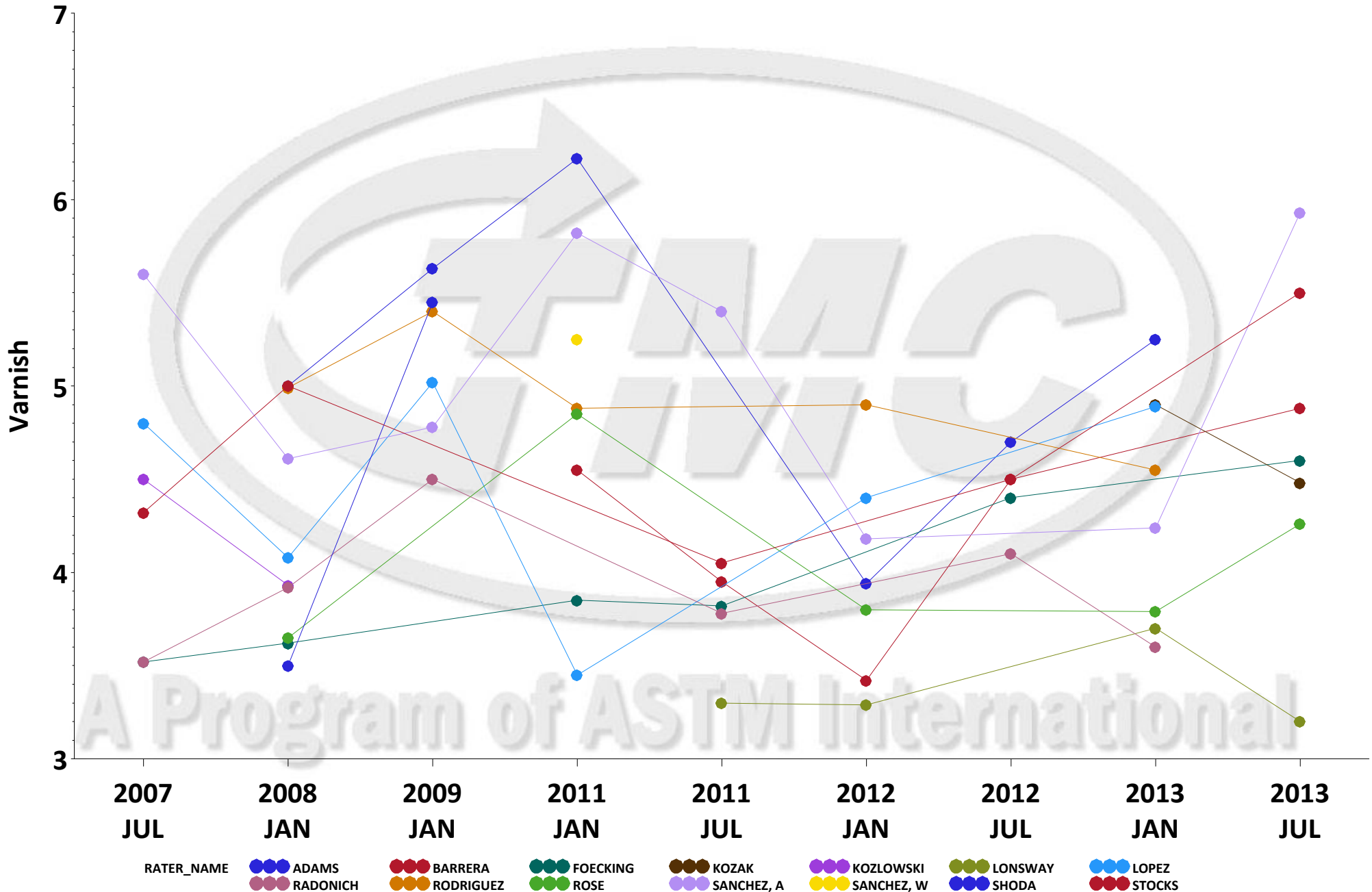
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A Program of ASTM International

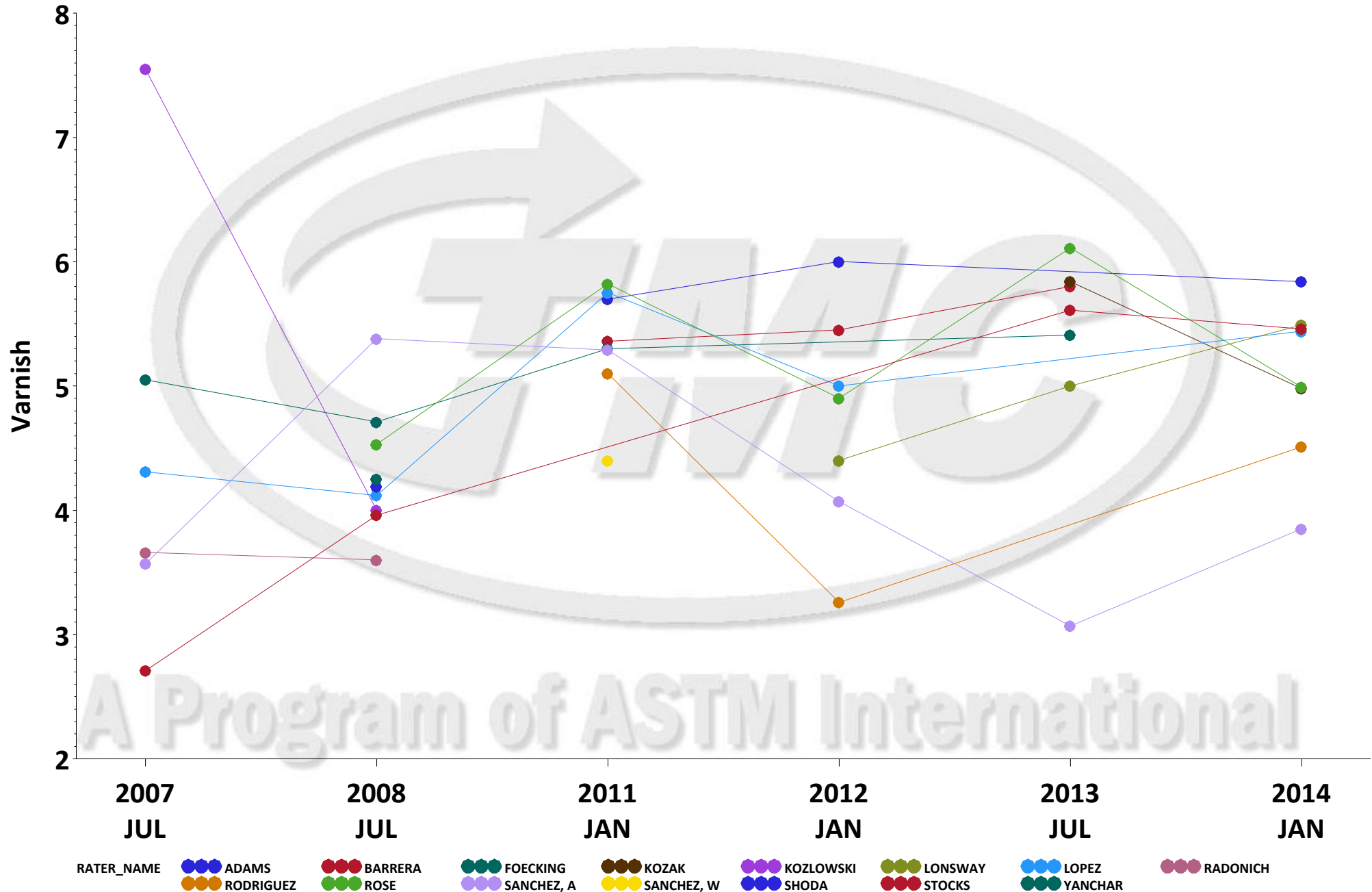
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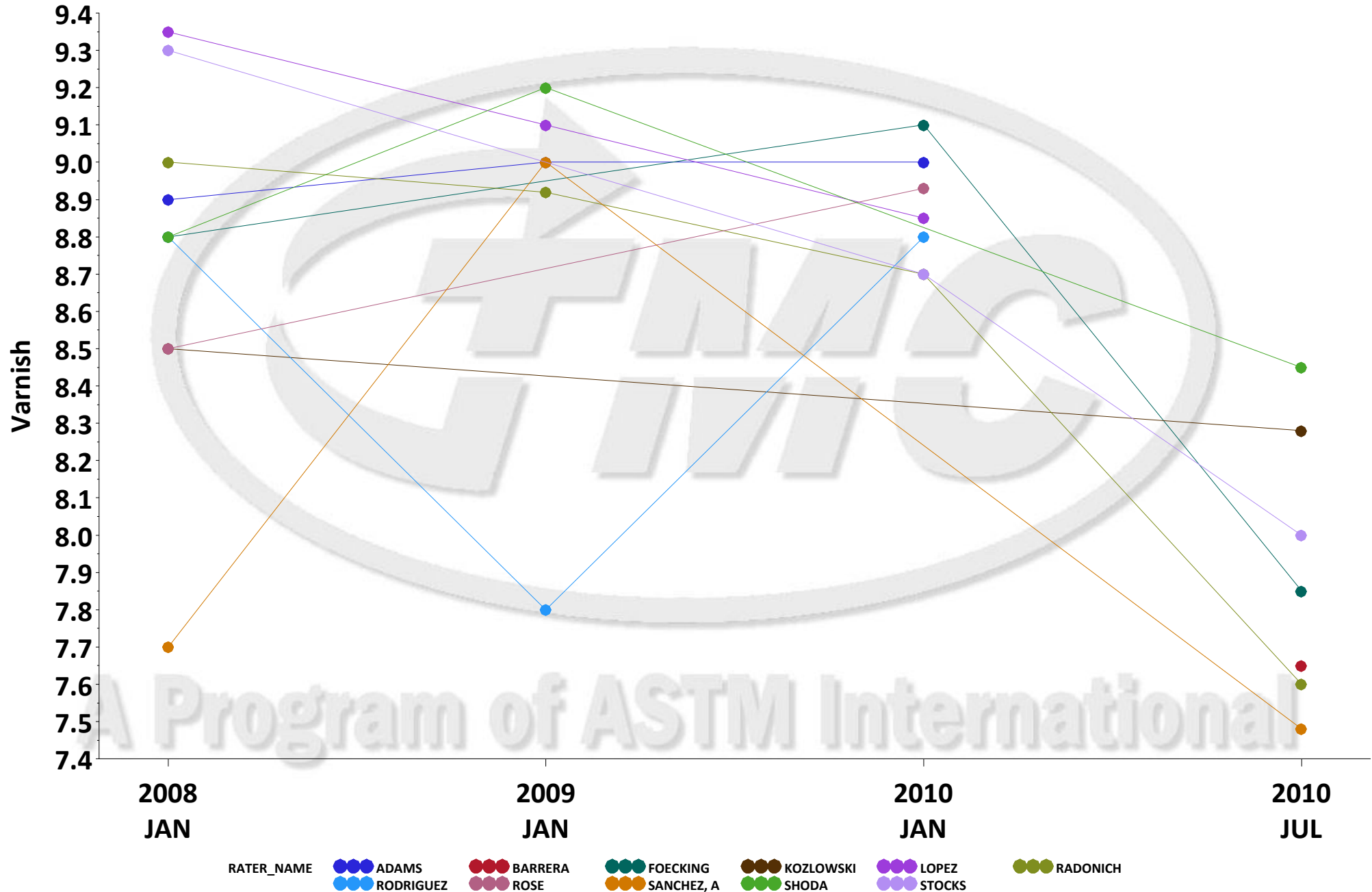
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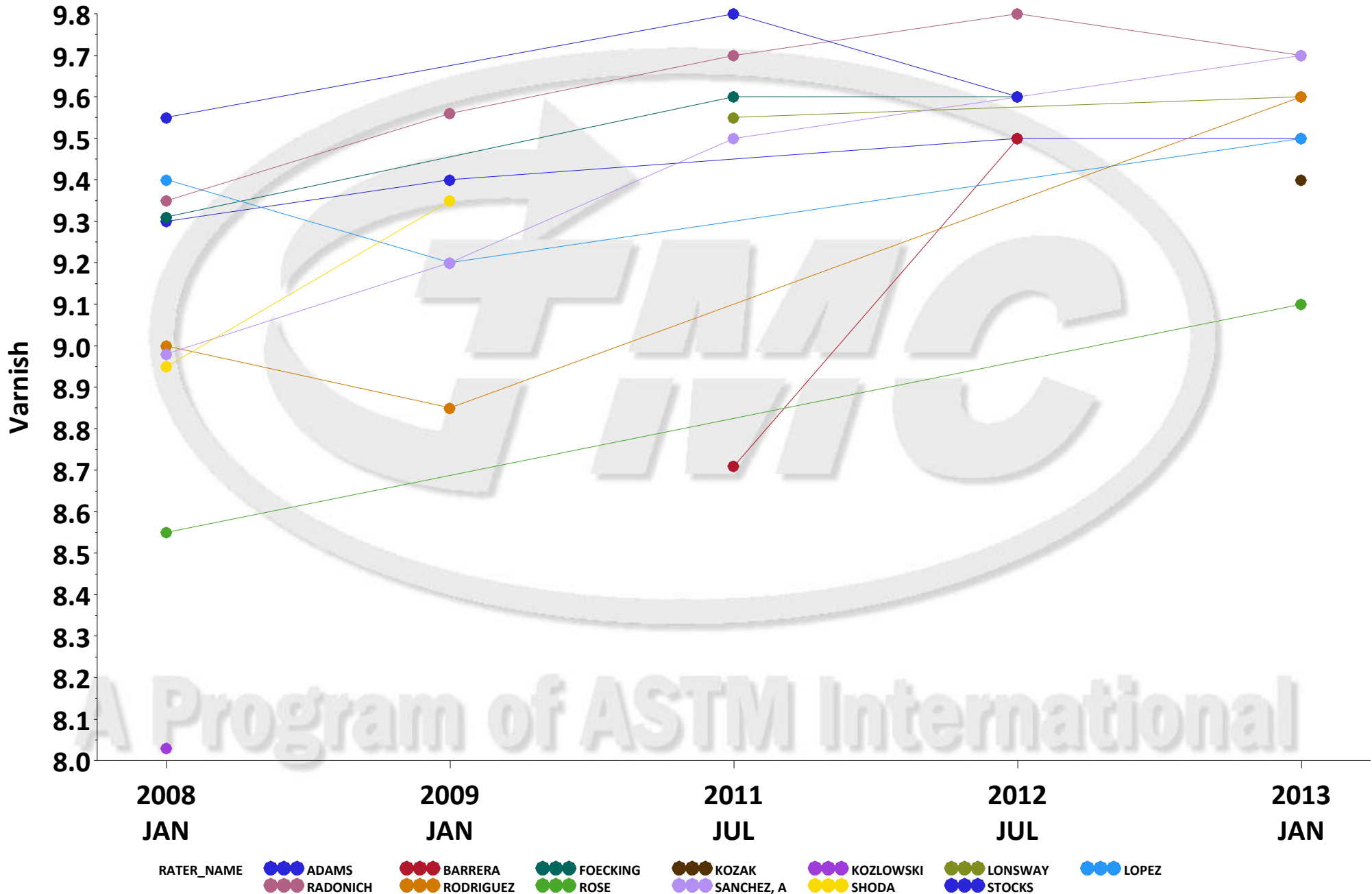
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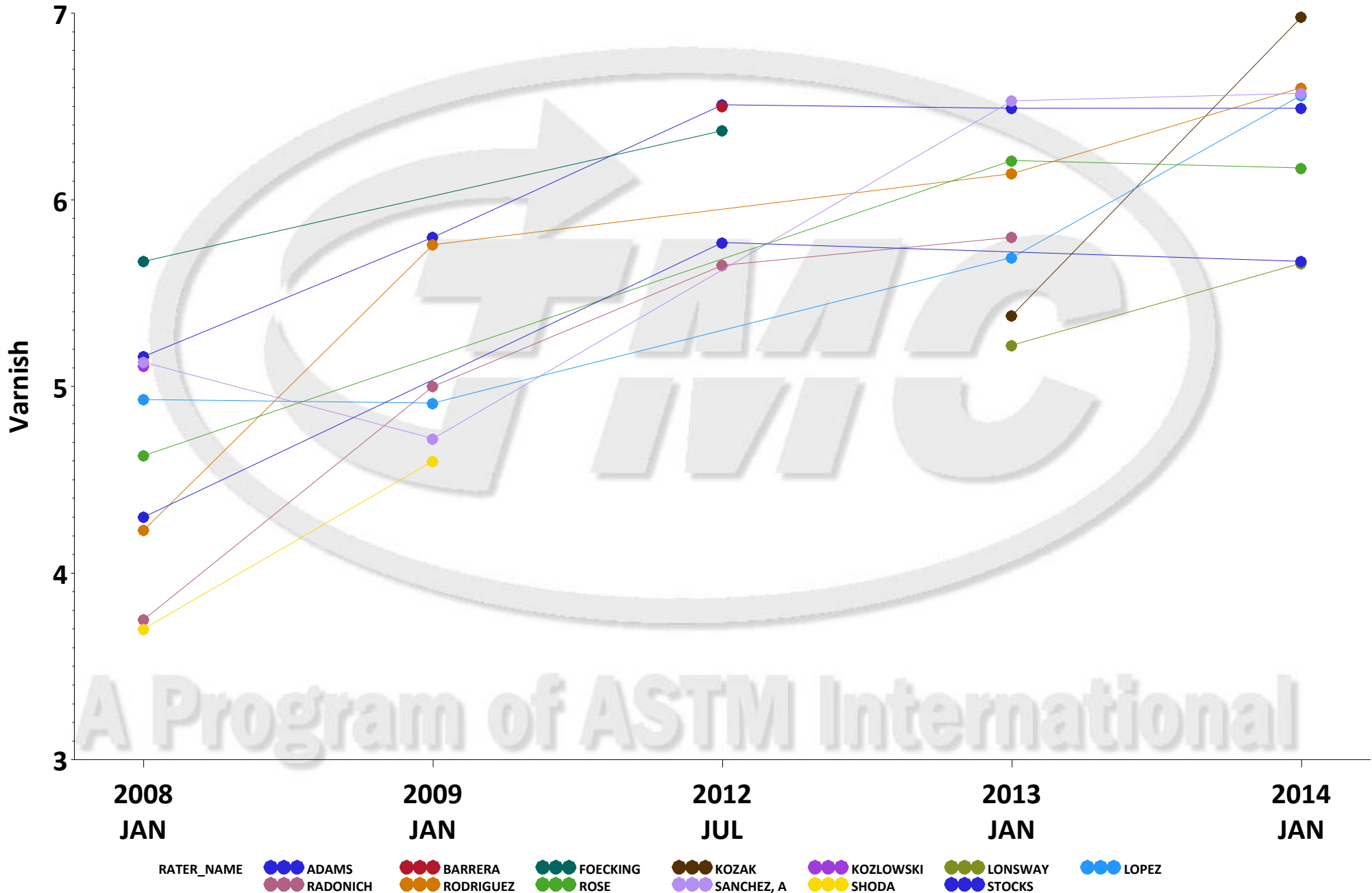
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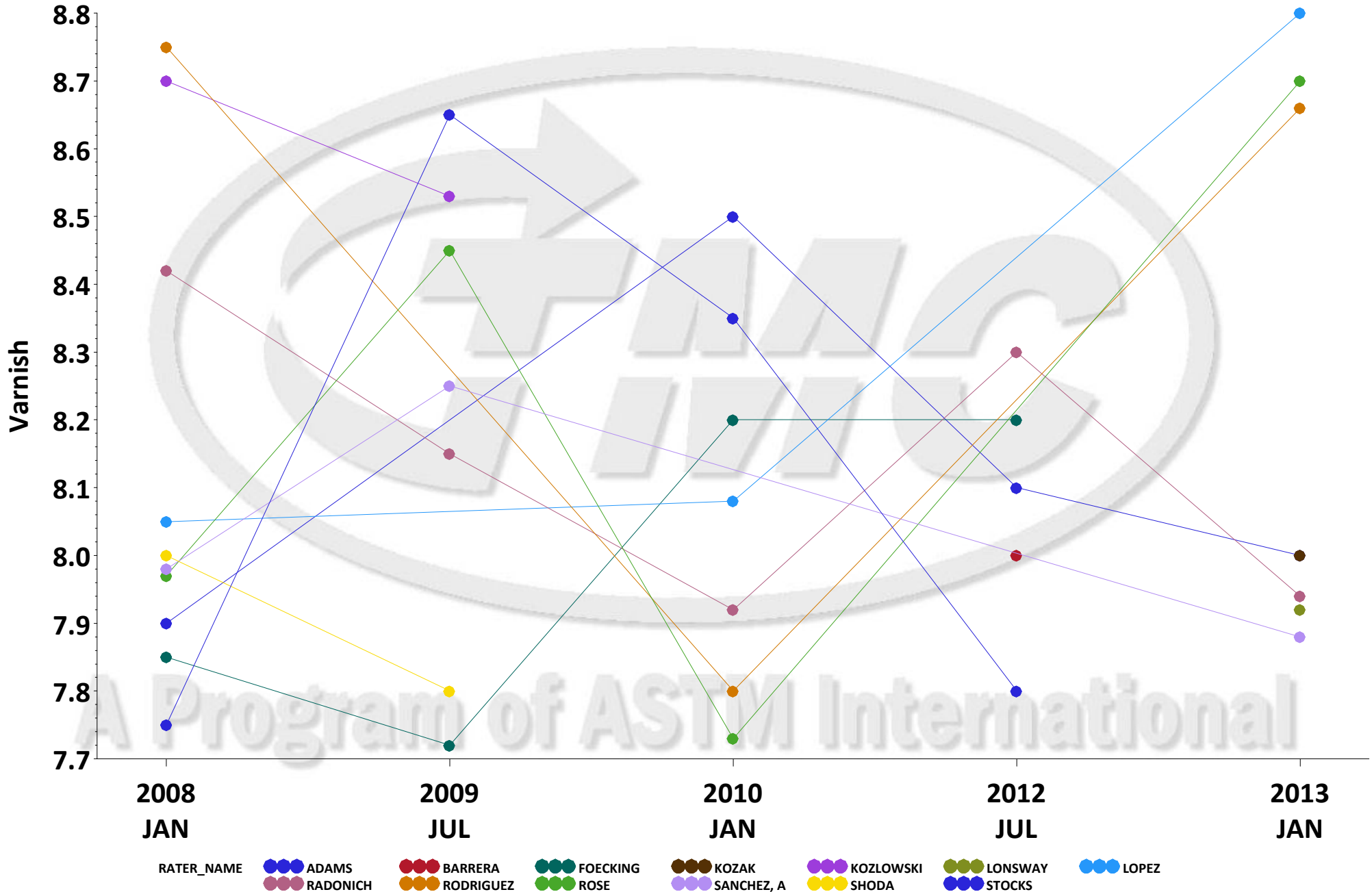
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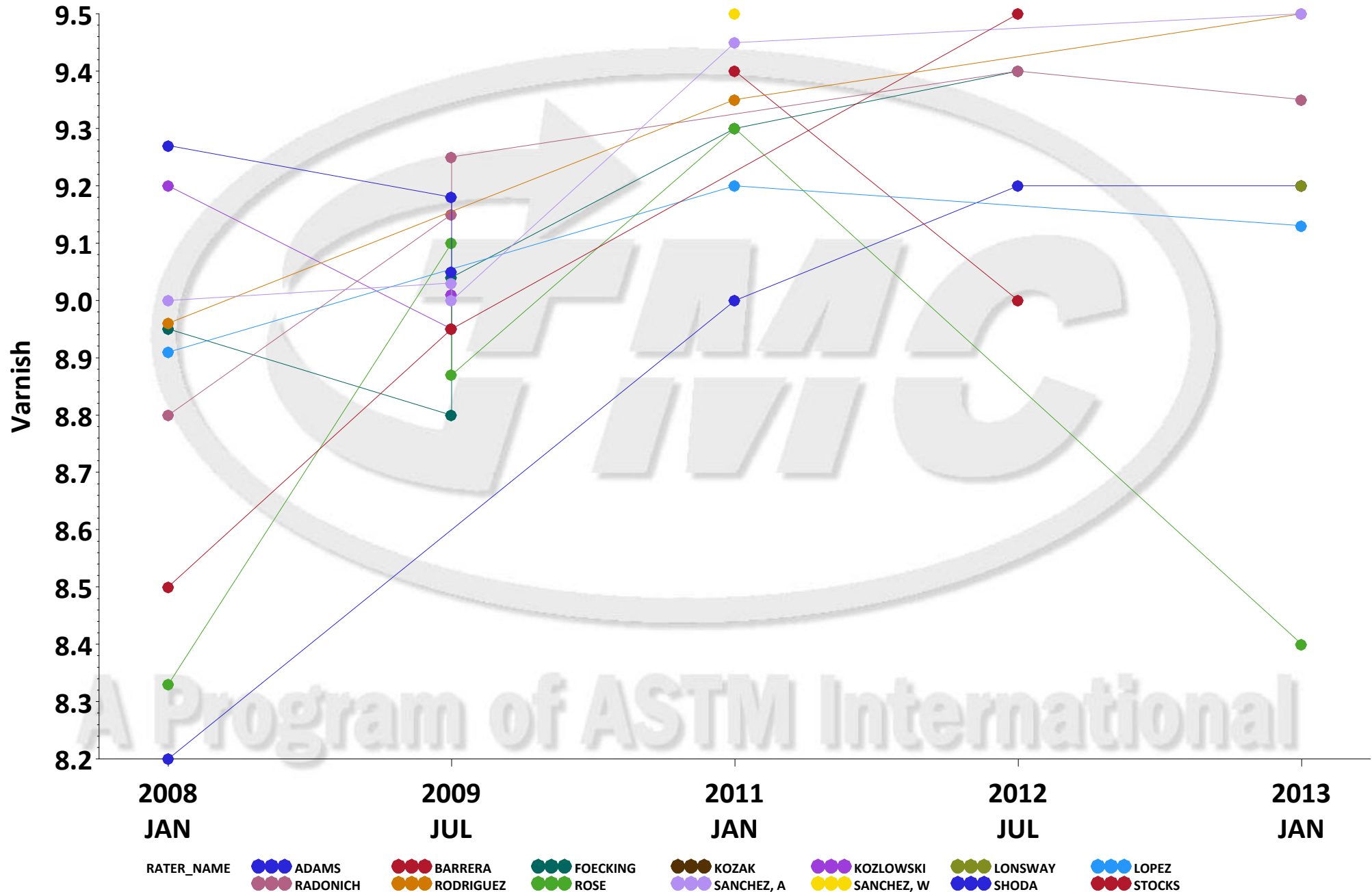
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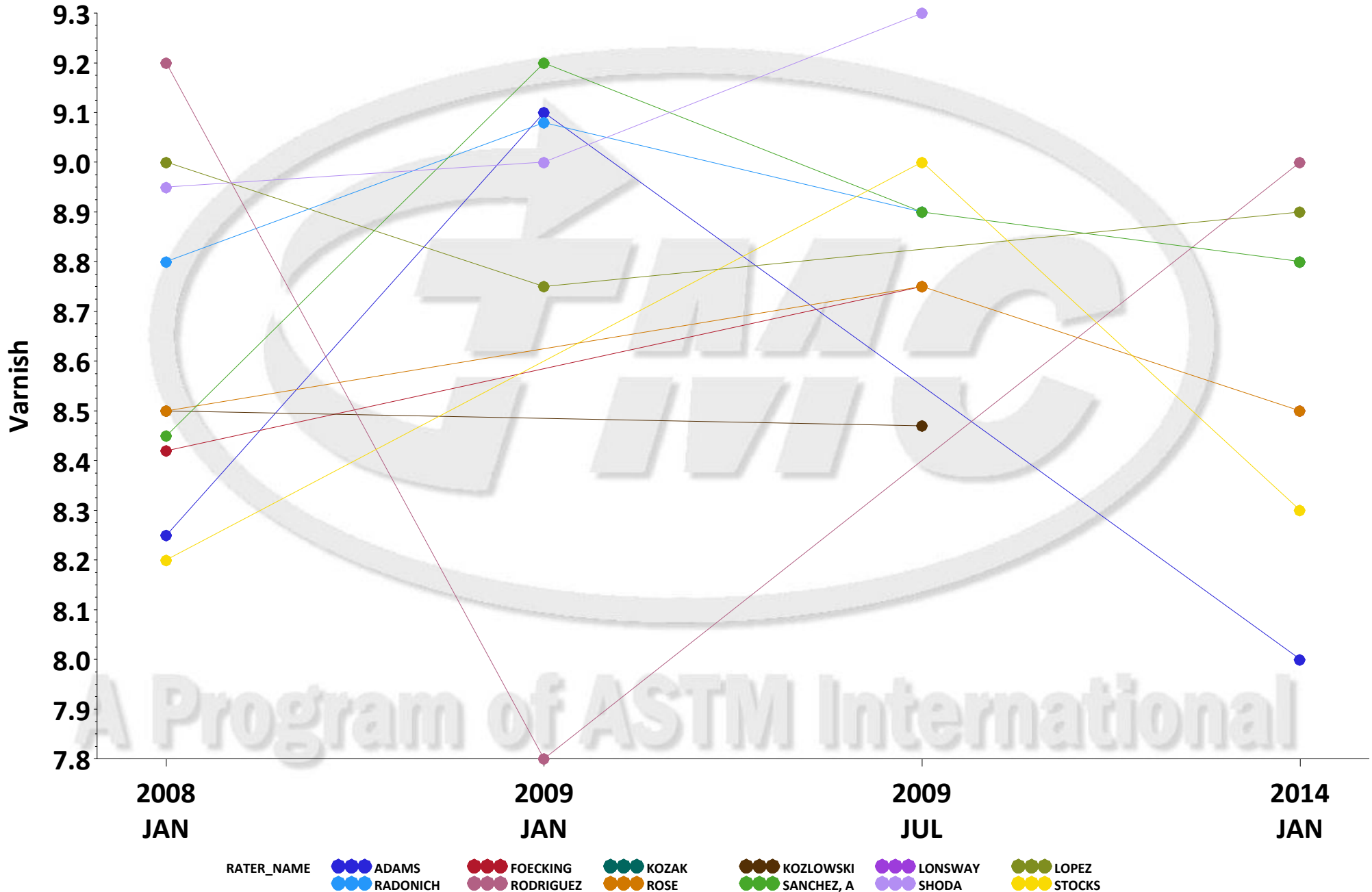
# L-60-1 Workshop Varnish Over Time

PART\_ID=16



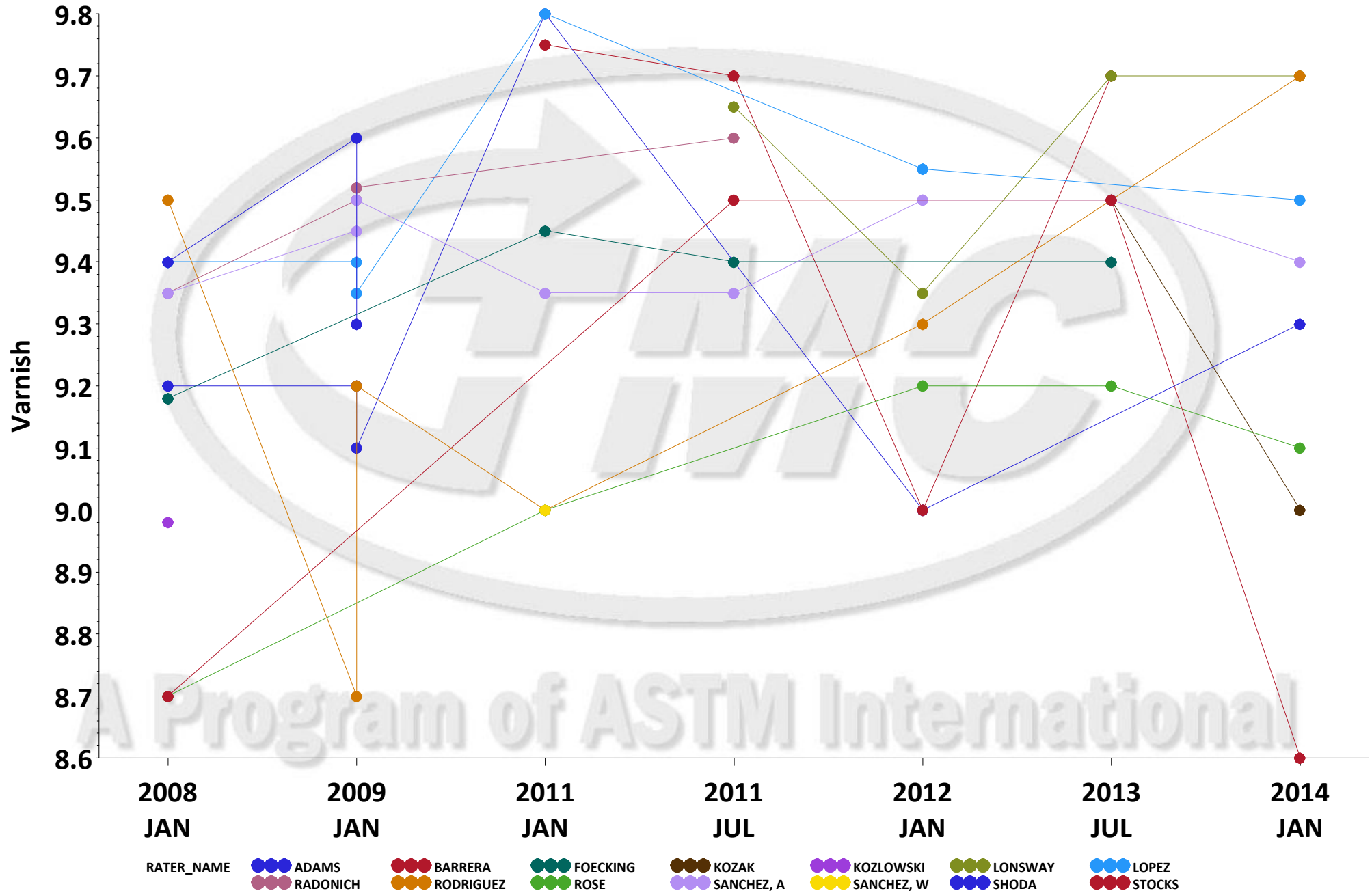
# L-60-1 Workshop Varnish Over Time

PART\_ID=17



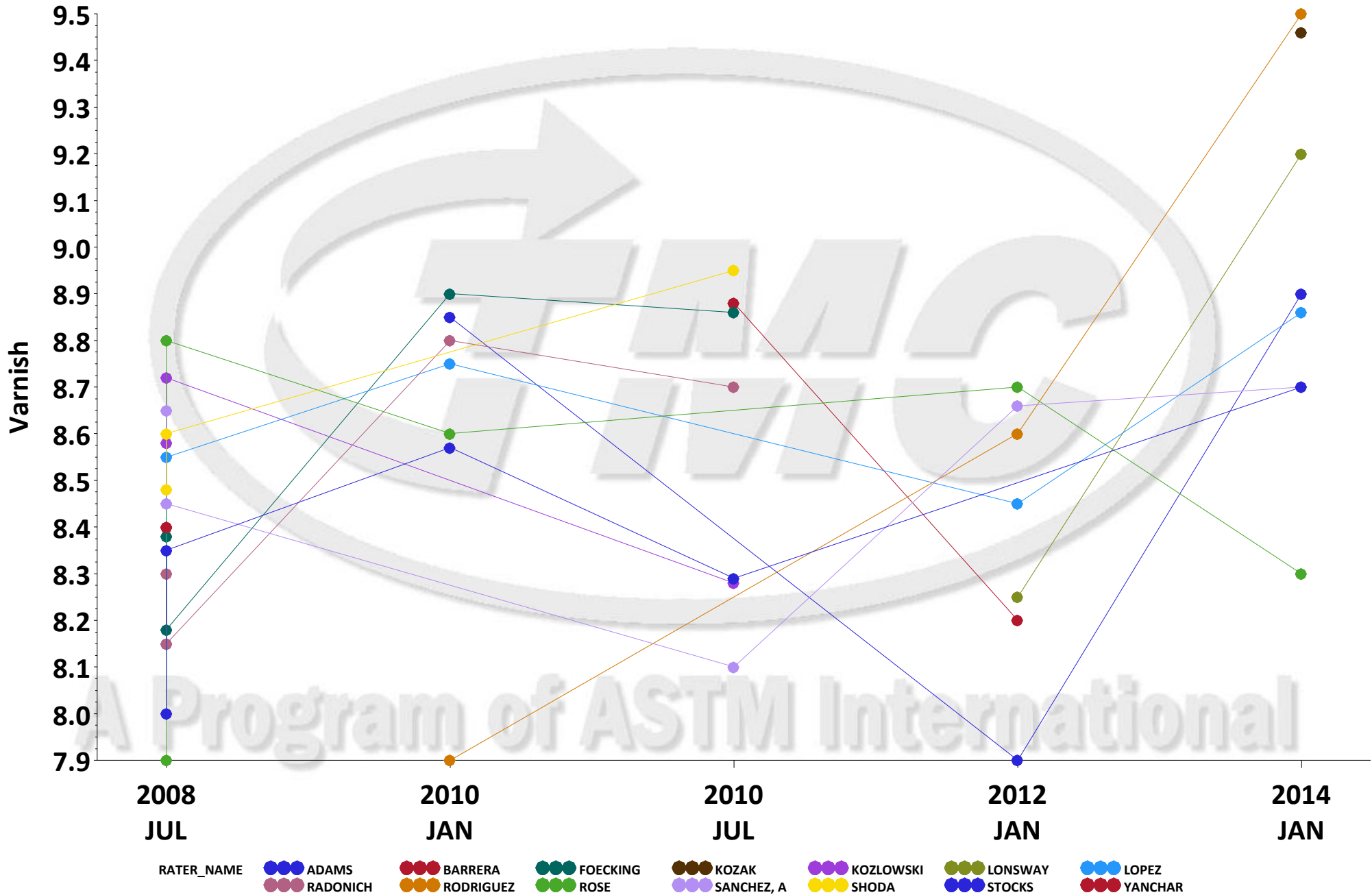
# L-60-1 Workshop Varnish Over Time

PART\_ID=18



# L-60-1 Workshop Varnish Over Time

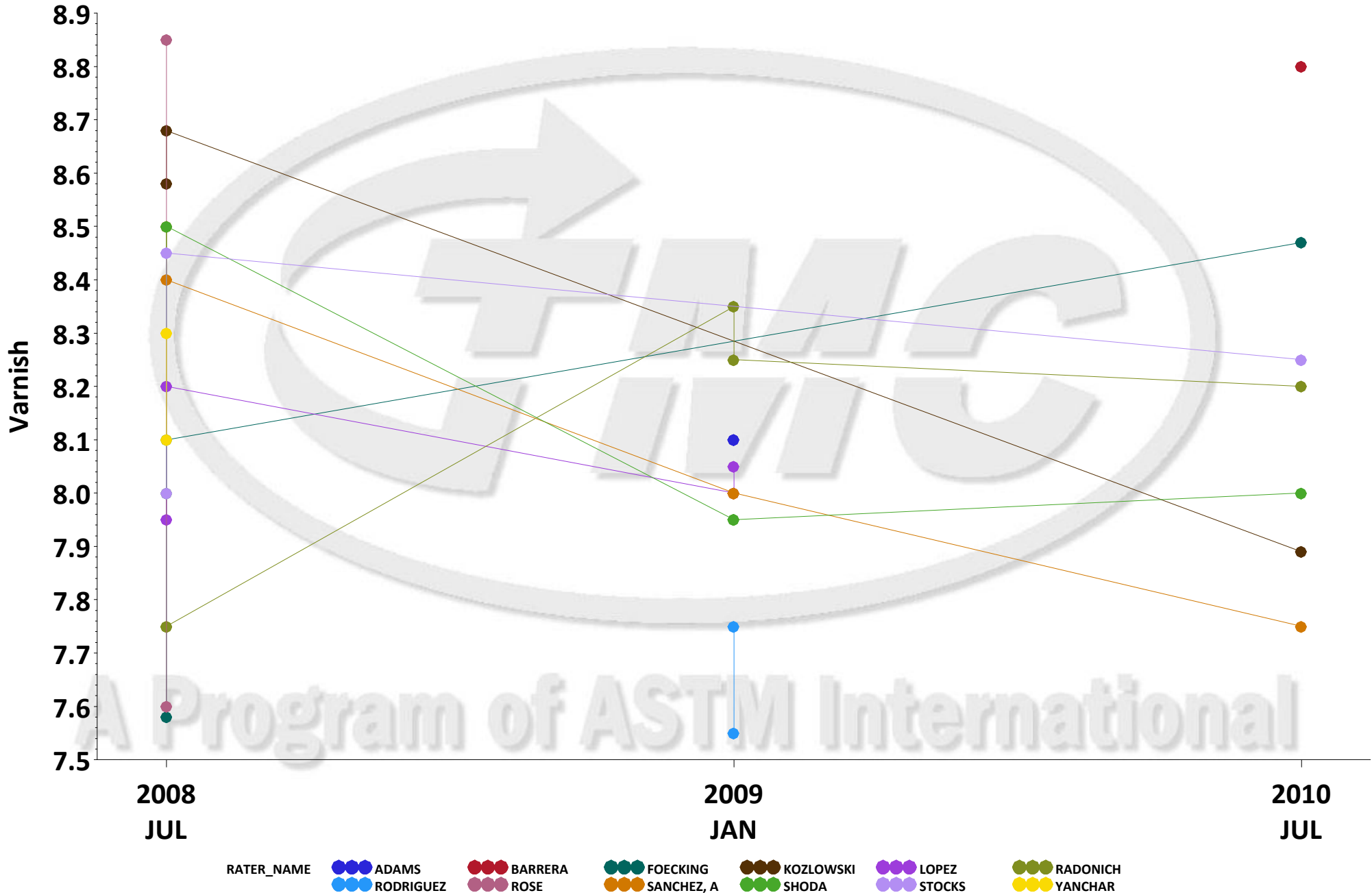
PART\_ID=19





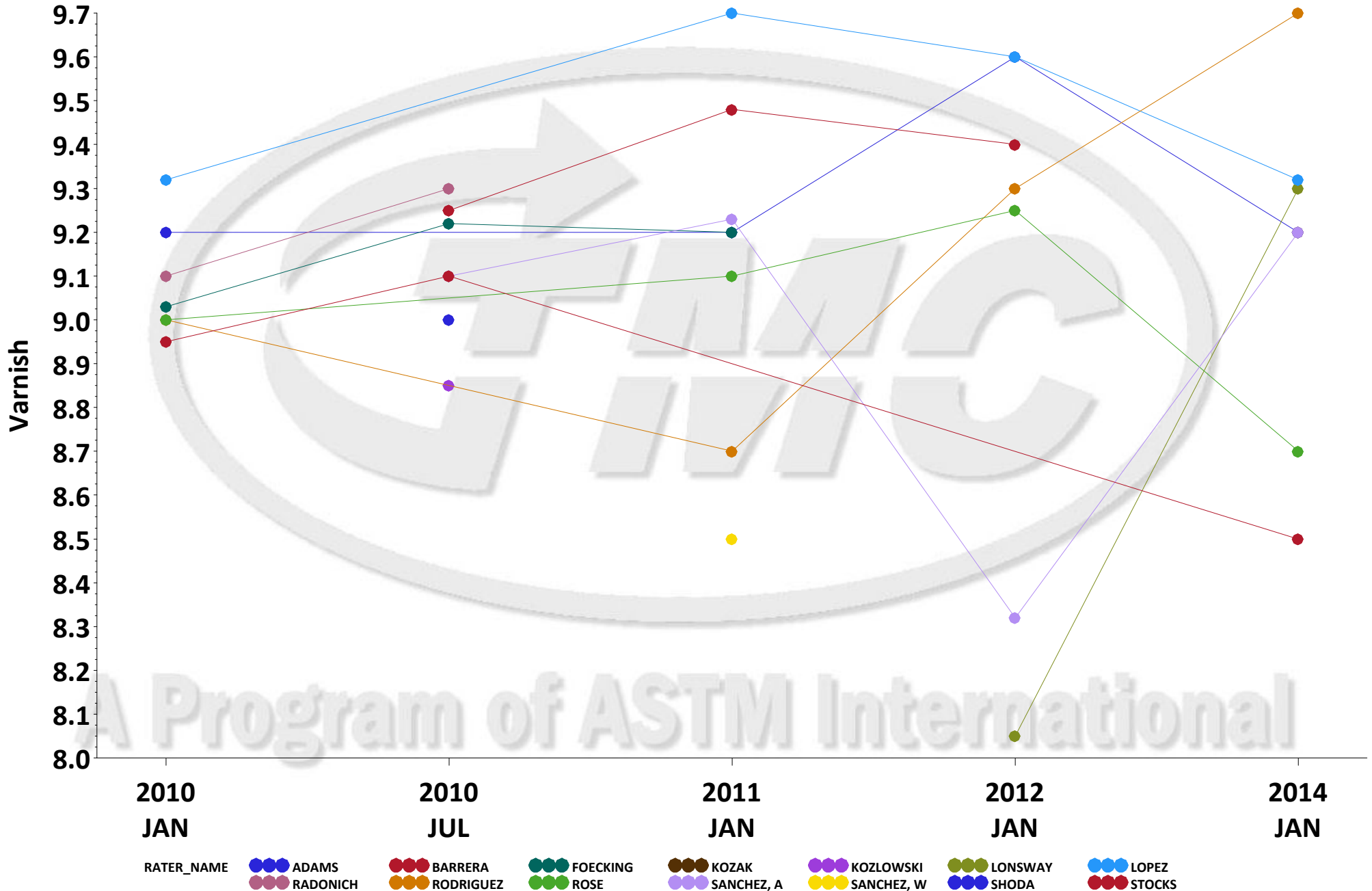
# L-60-1 Workshop Varnish Over Time

PART\_ID=20



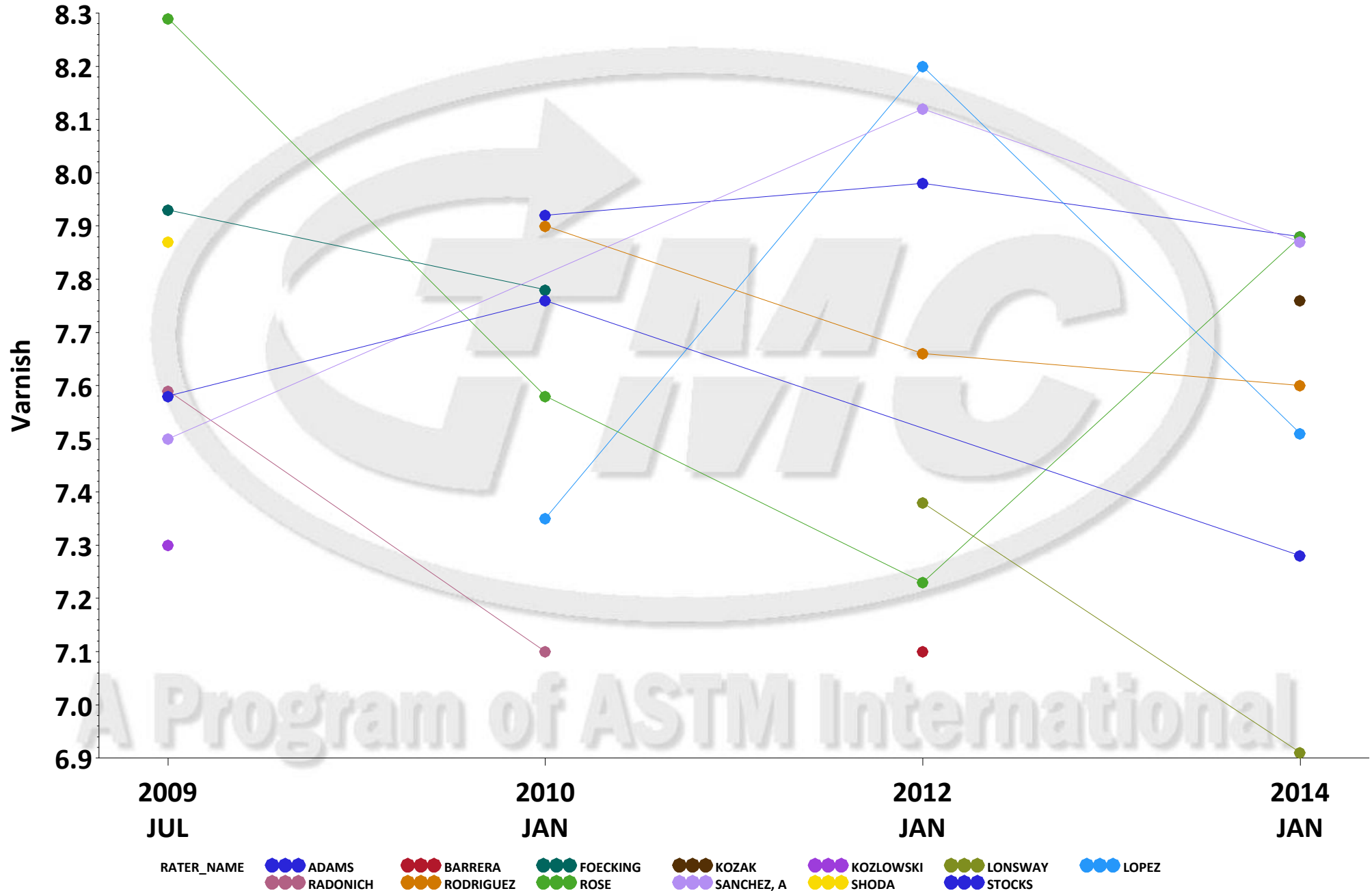
# L-60-1 Workshop Varnish Over Time

PART\_ID=21



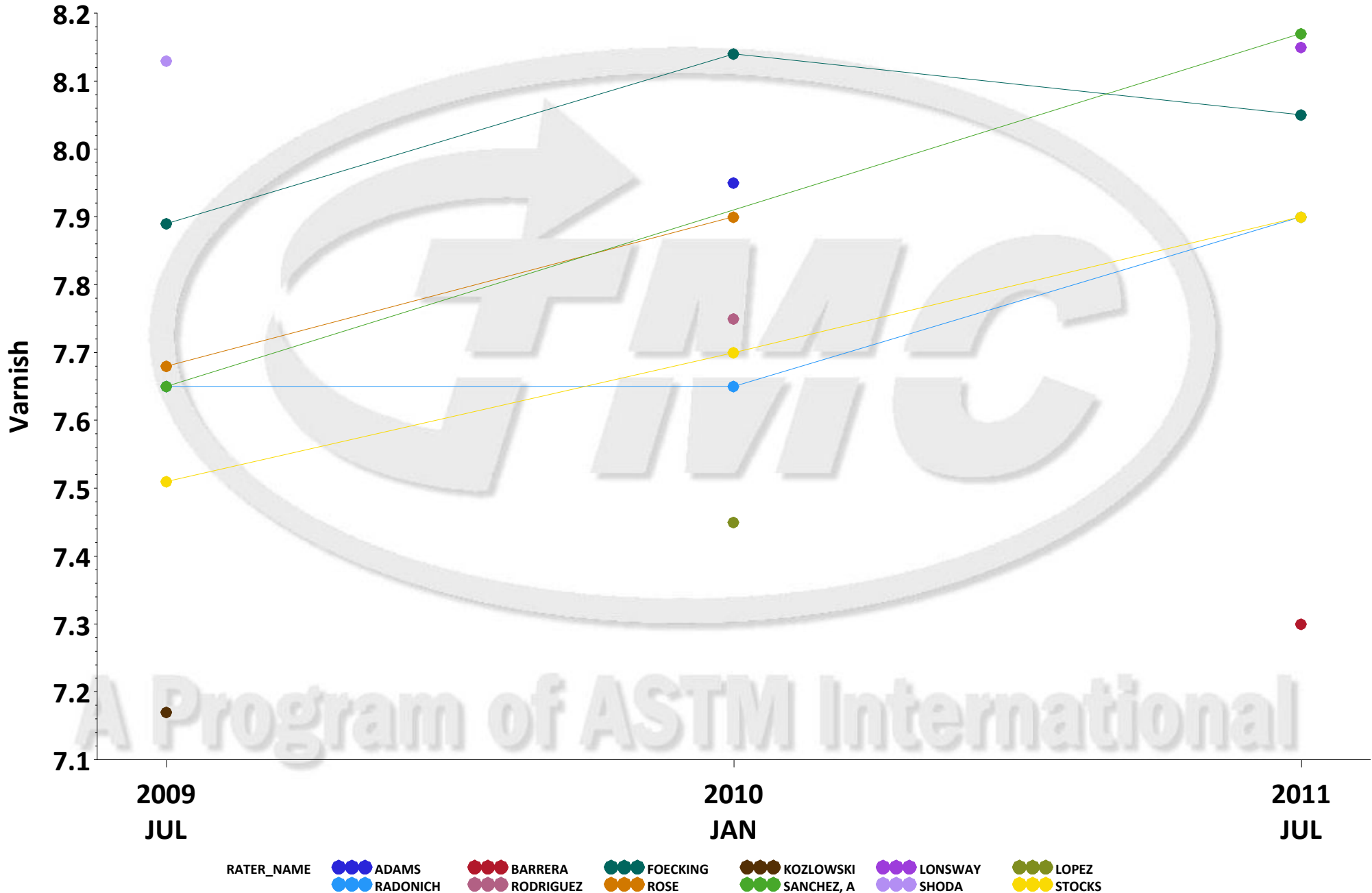
# L-60-1 Workshop Varnish Over Time

PART\_ID=22



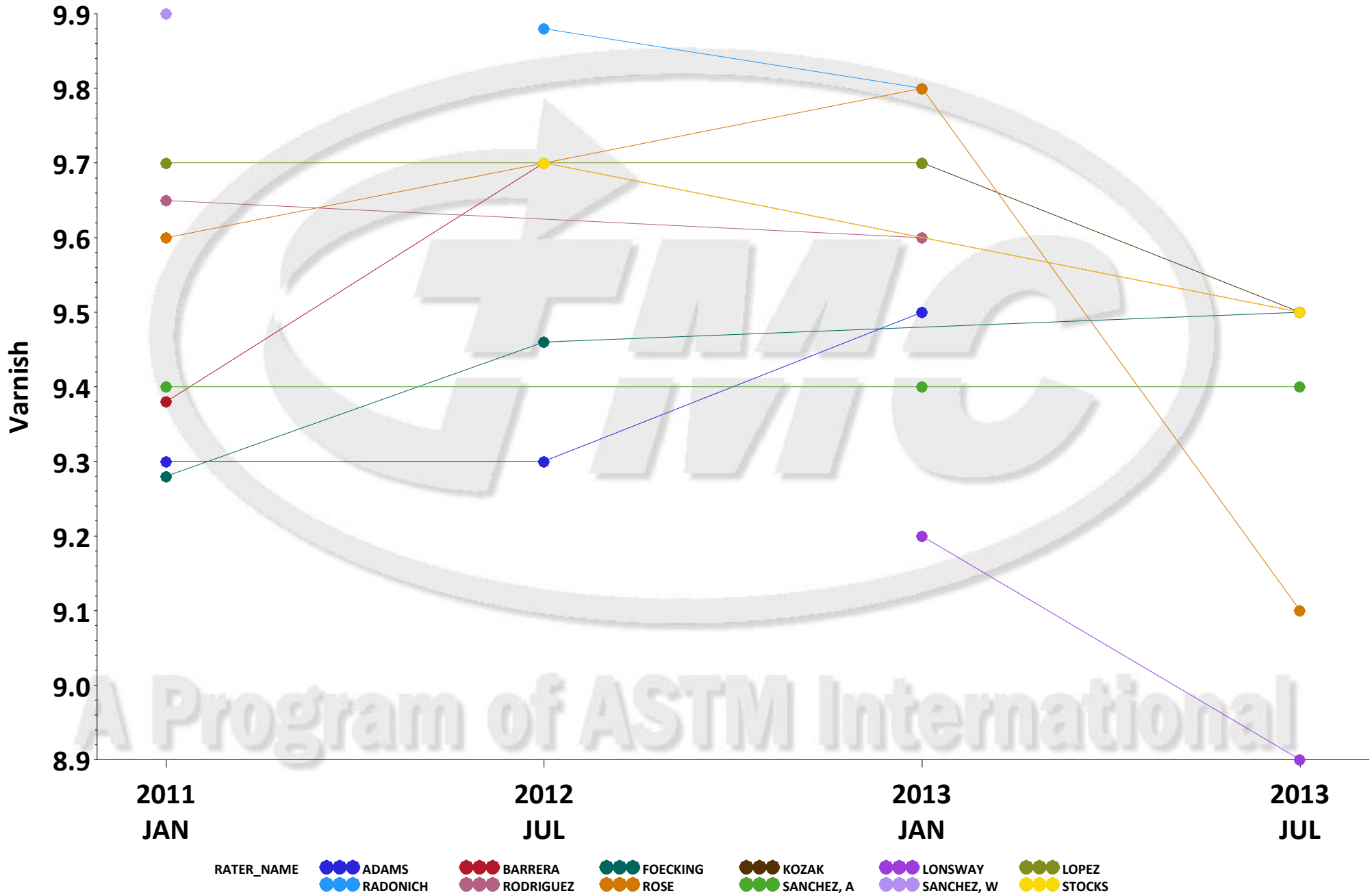
# L-60-1 Workshop Varnish Over Time

PART\_ID=23



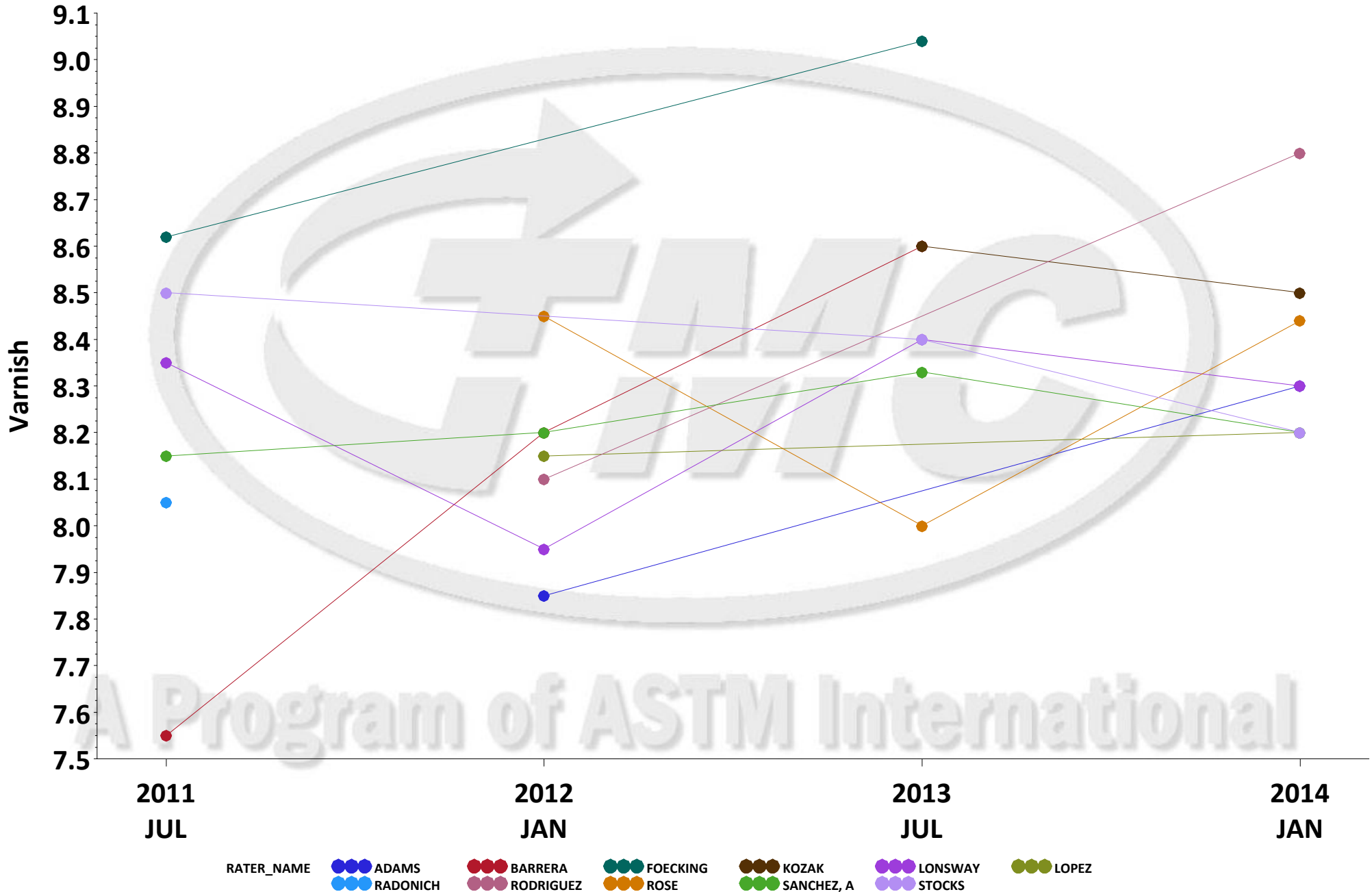
# L-60-1 Workshop Varnish Over Time

PART\_ID=24



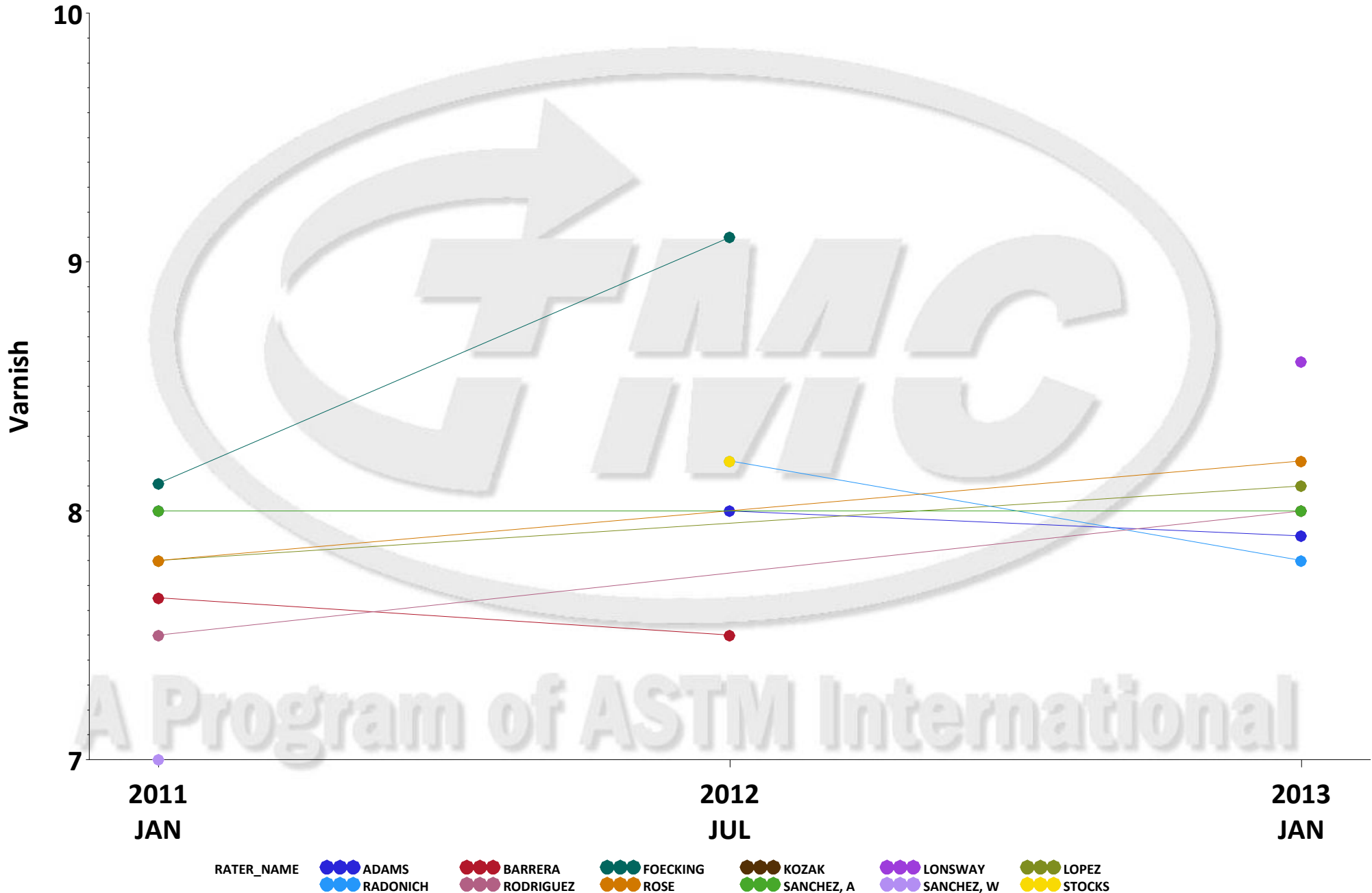
# L-60-1 Workshop Varnish Over Time

PART\_ID=25



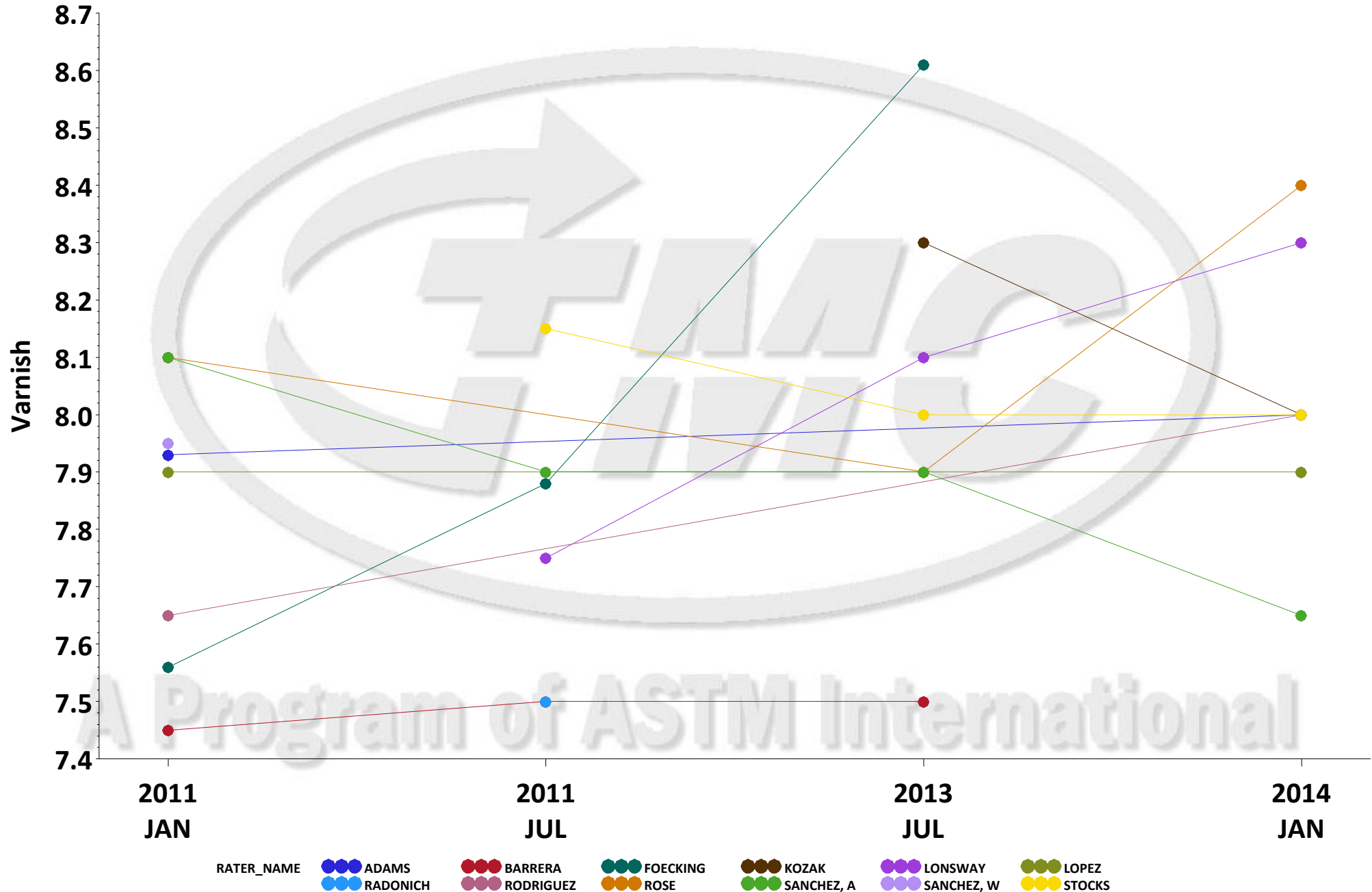
# L-60-1 Workshop Varnish Over Time

PART\_ID=26



# L-60-1 Workshop Varnish Over Time

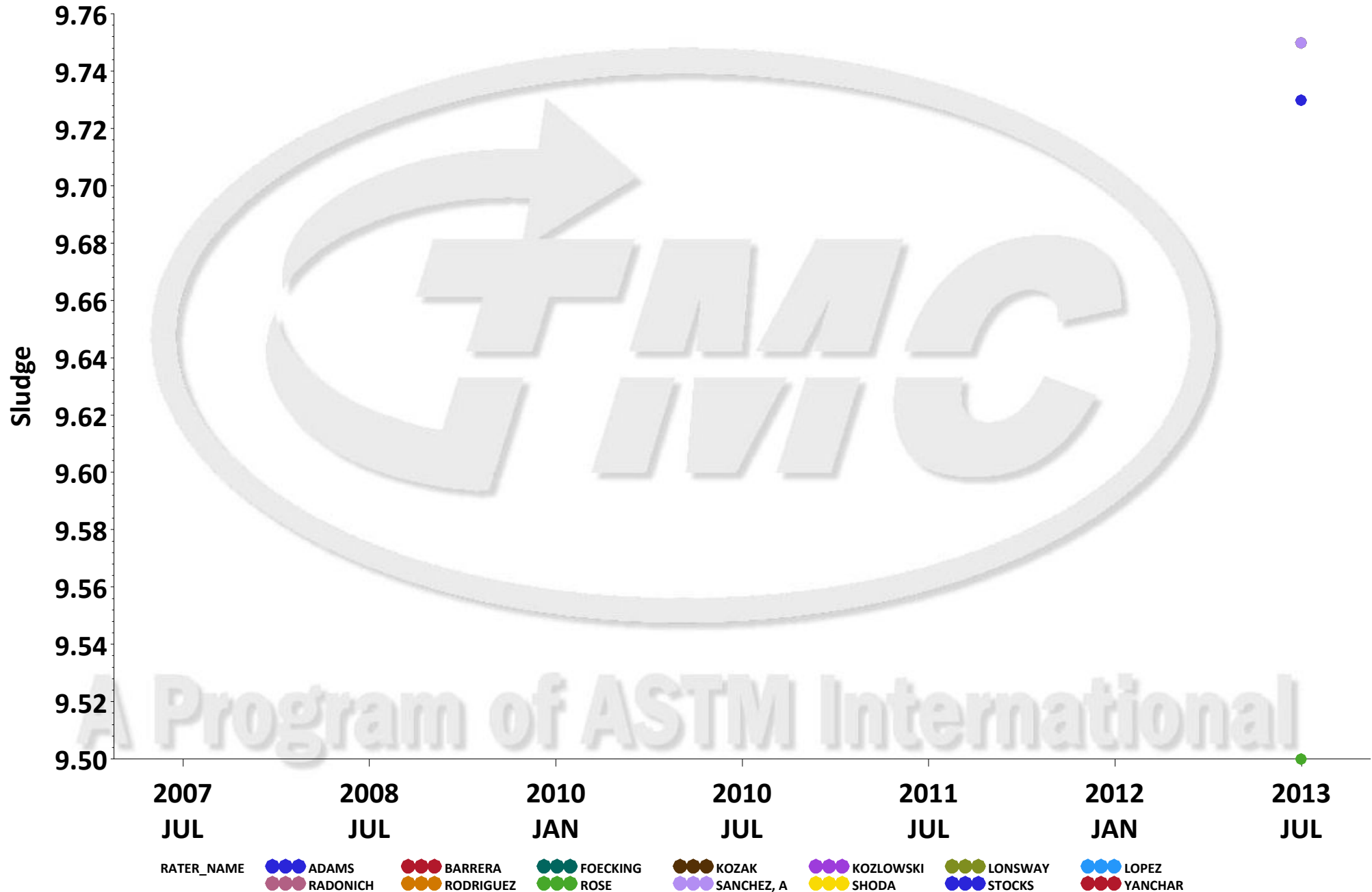
PART\_ID=28





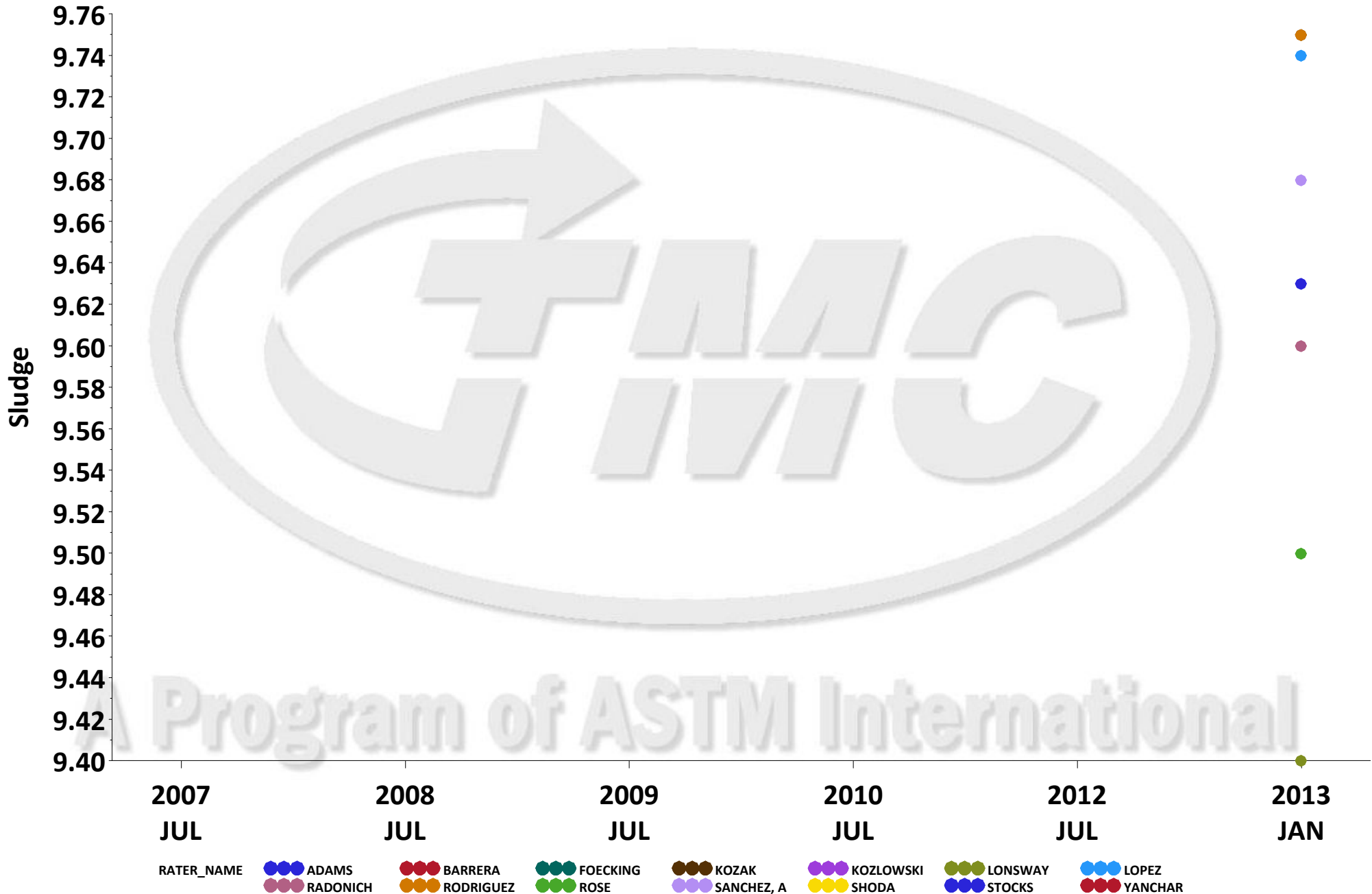
# L-60-1 Workshop Sludge Over Time

PART\_ID=1



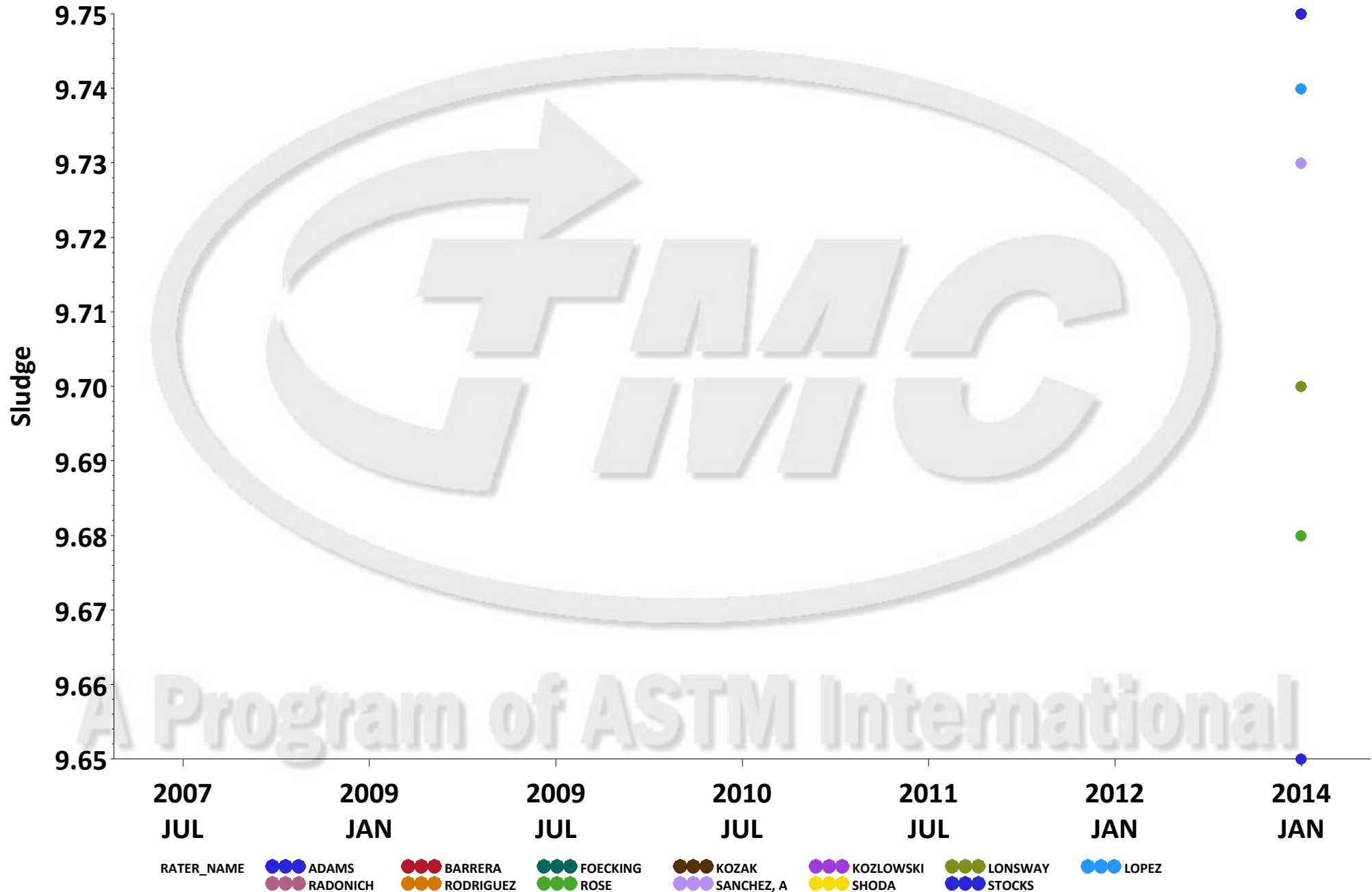
# L-60-1 Workshop Sludge Over Time

PART\_ID=2



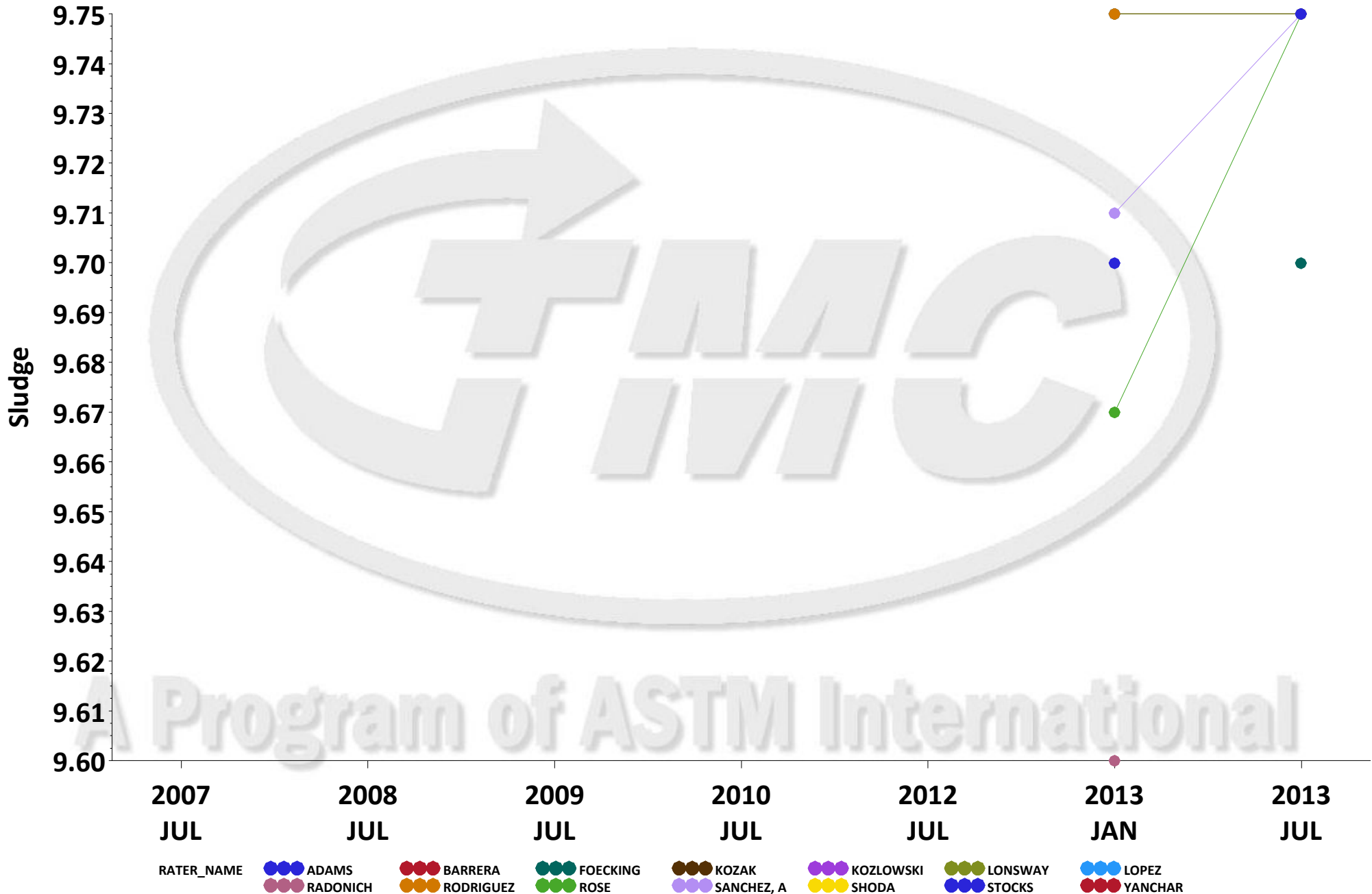
# L-60-1 Workshop Sludge Over Time

PART\_ID=3



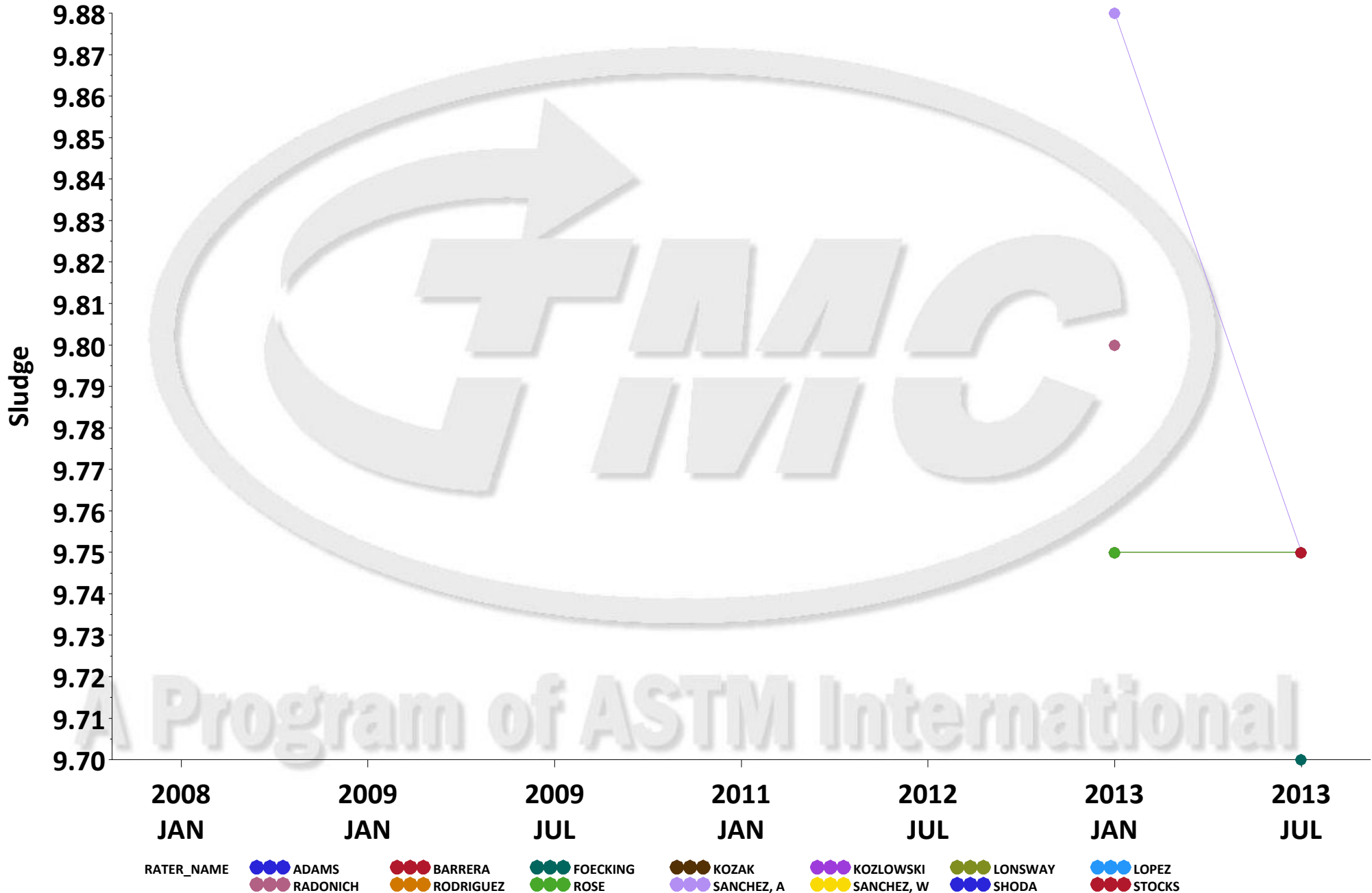
# L-60-1 Workshop Sludge Over Time

PART\_ID=4



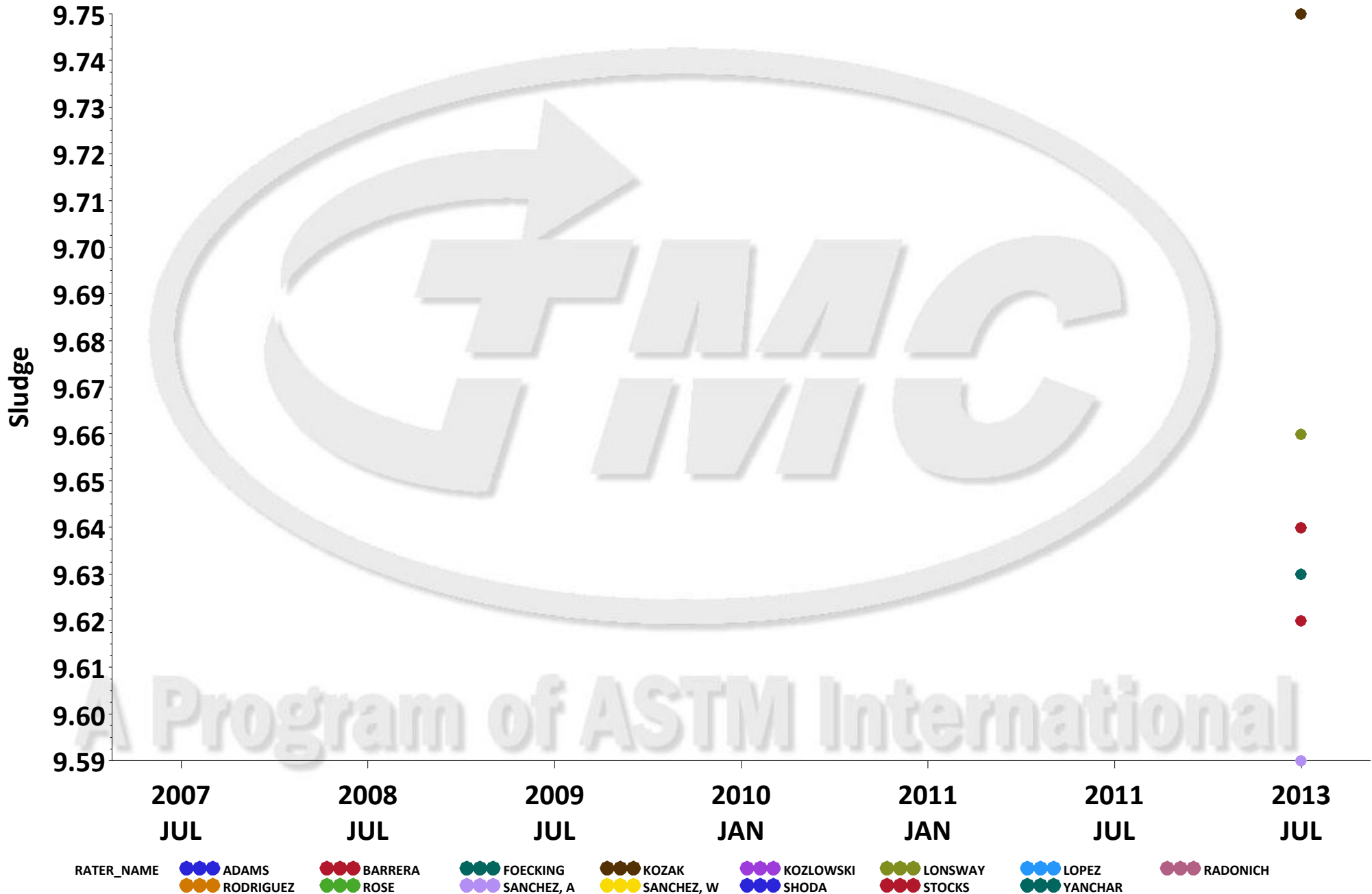
# L-60-1 Workshop Sludge Over Time

PART\_ID=8



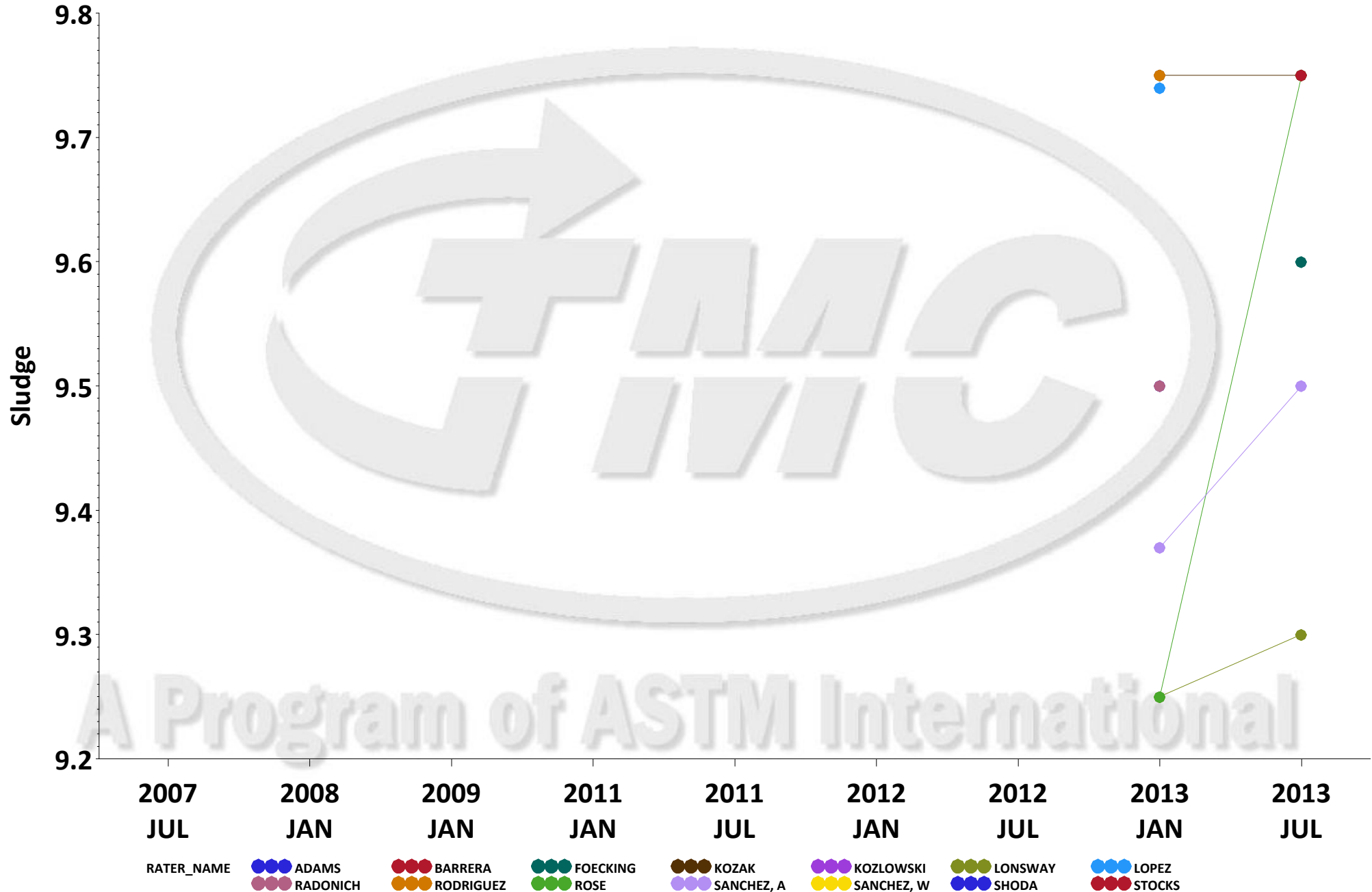
# L-60-1 Workshop Sludge Over Time

PART\_ID=9



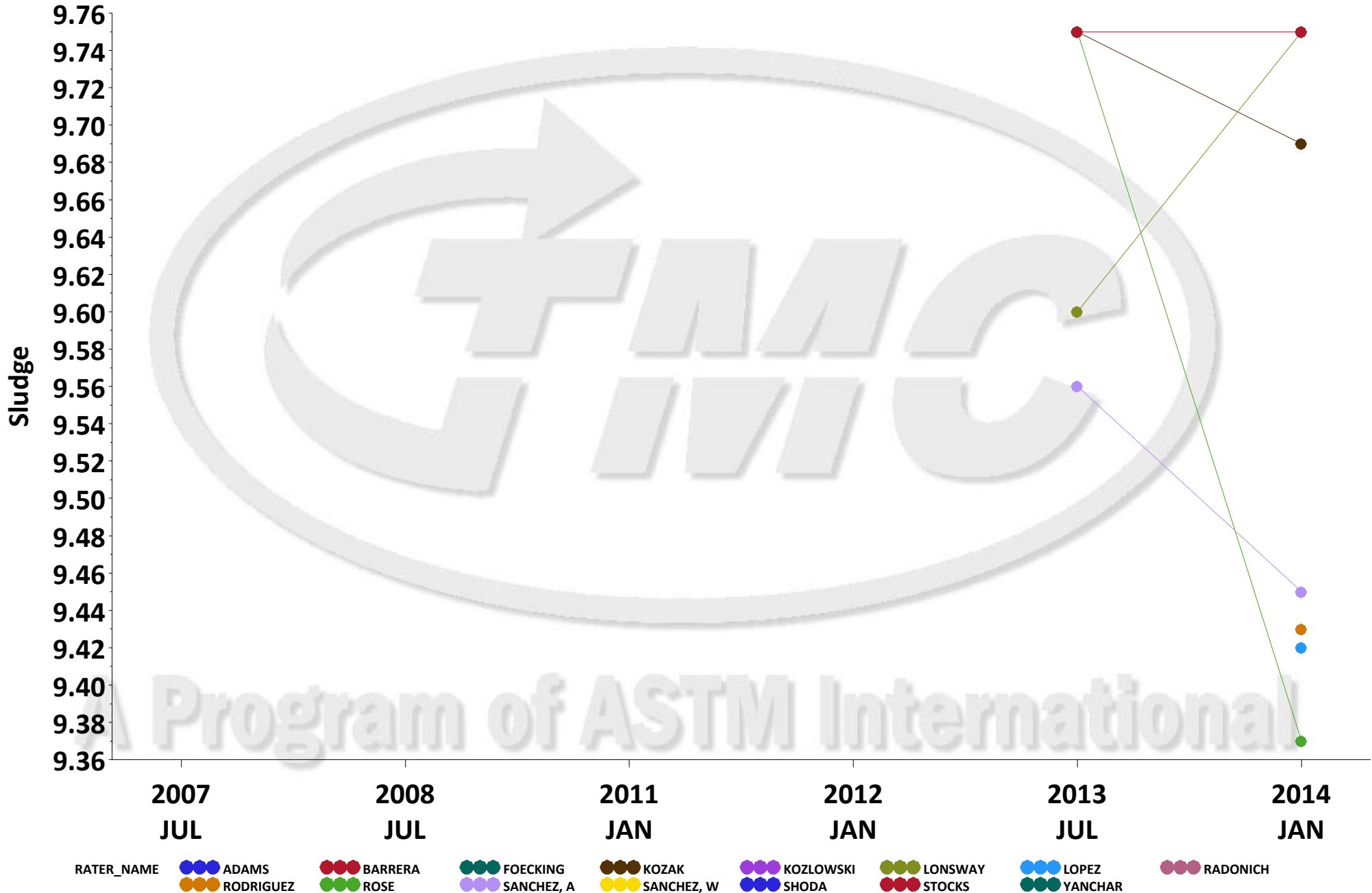
# L-60-1 Workshop Sludge Over Time

PART\_ID=10



# L-60-1 Workshop Sludge Over Time

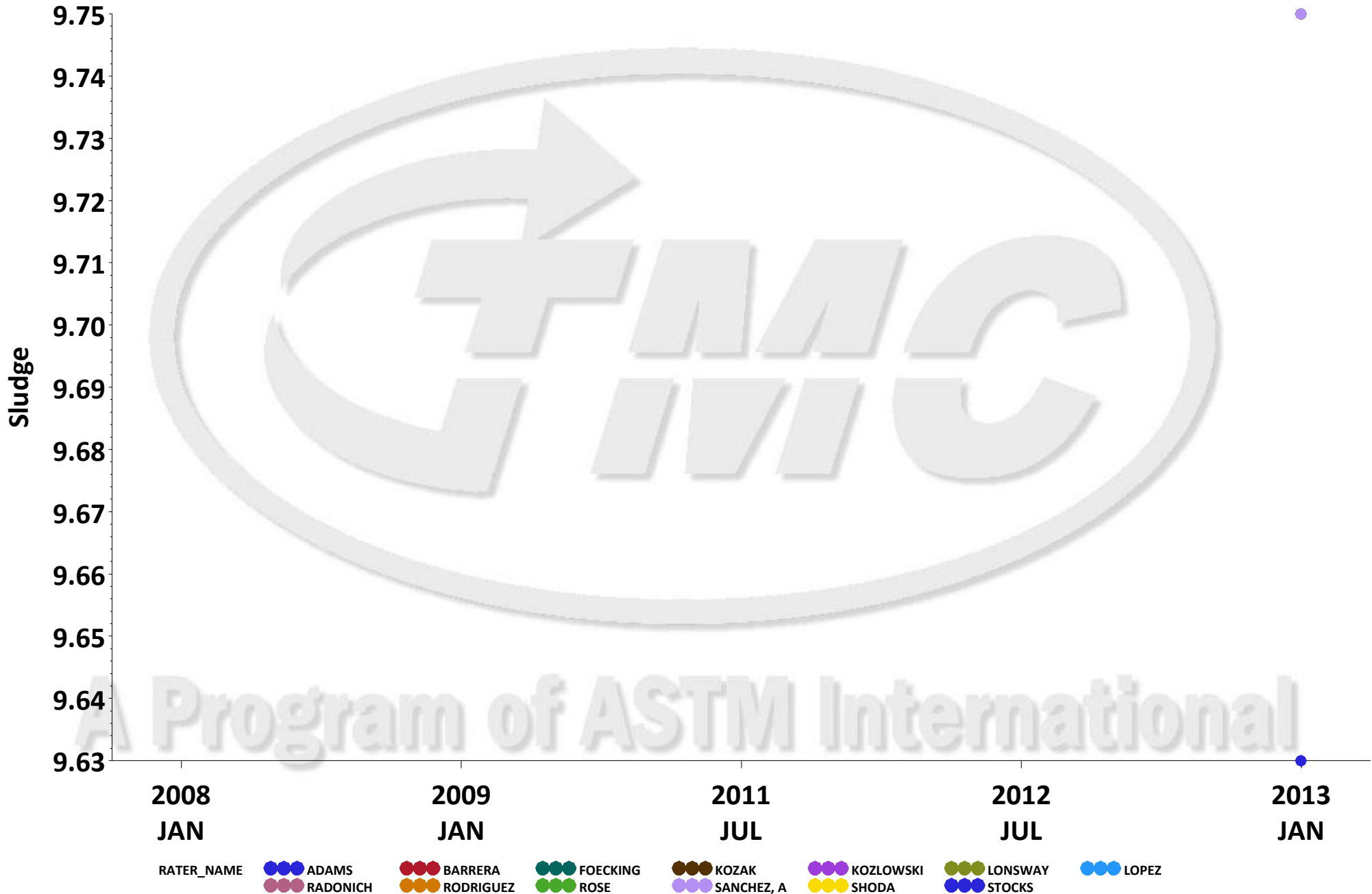
PART\_ID=11





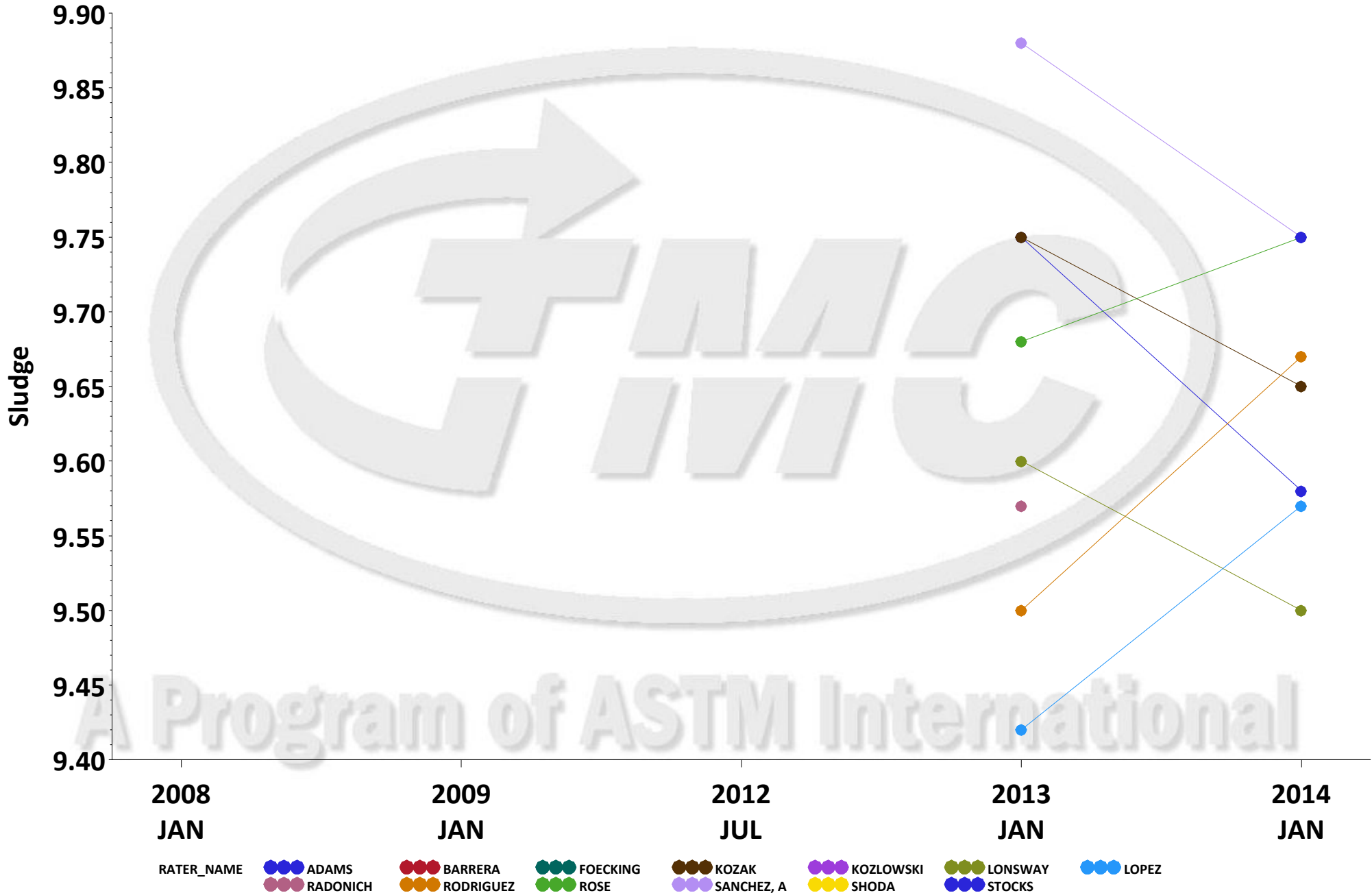
# L-60-1 Workshop Sludge Over Time

PART\_ID=13



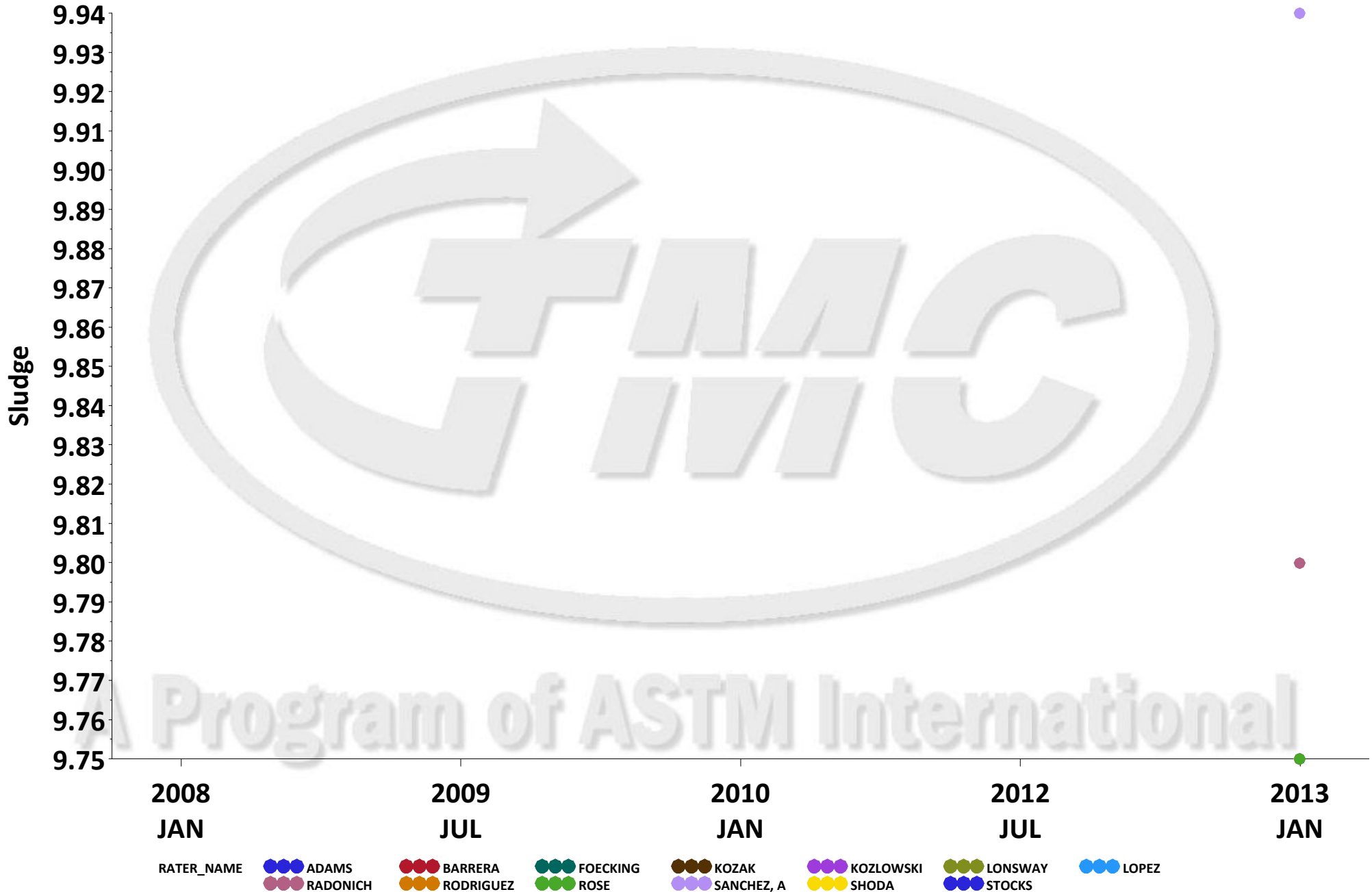
# L-60-1 Workshop Sludge Over Time

PART\_ID=14



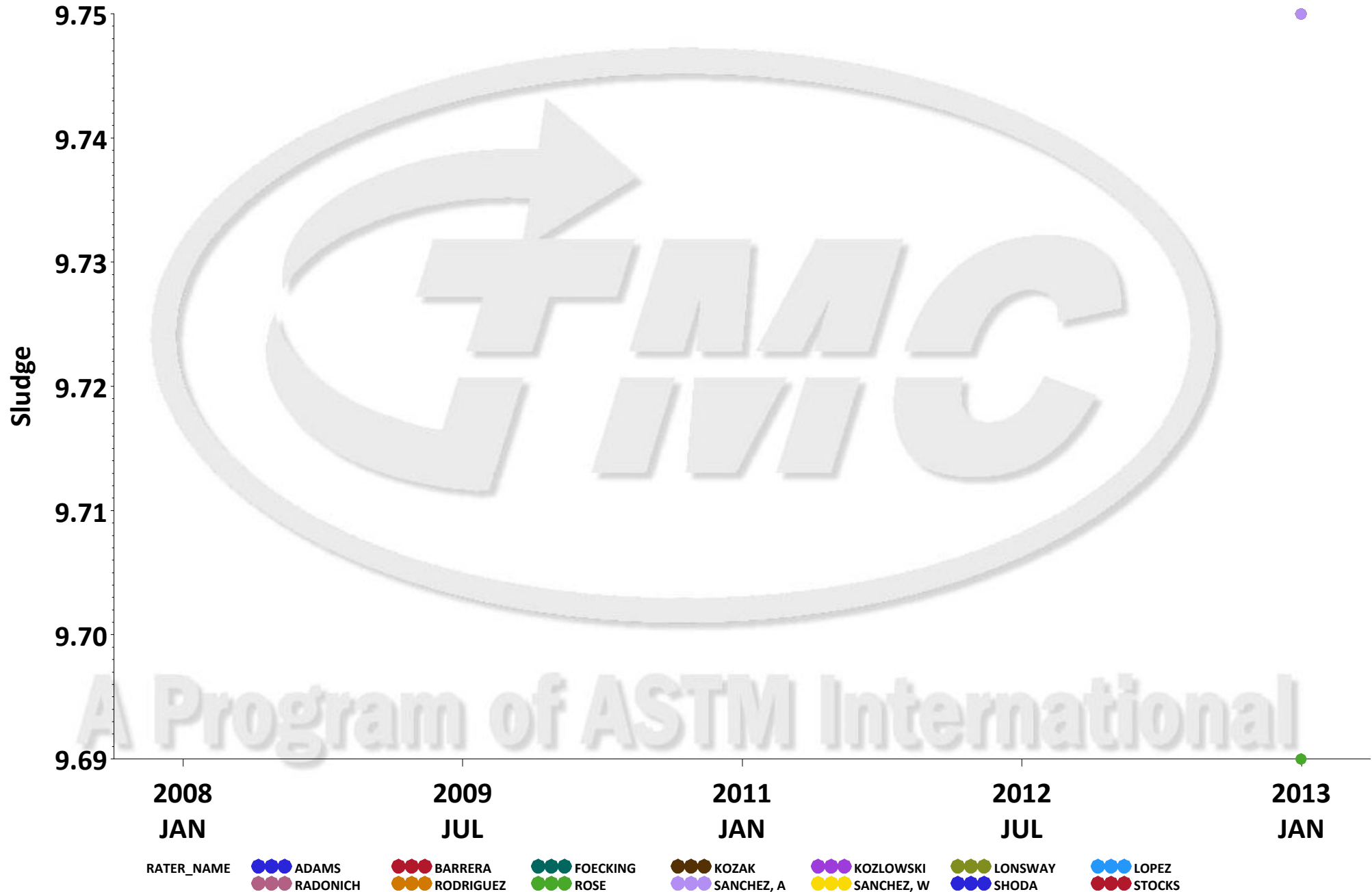
# L-60-1 Workshop Sludge Over Time

PART\_ID=15



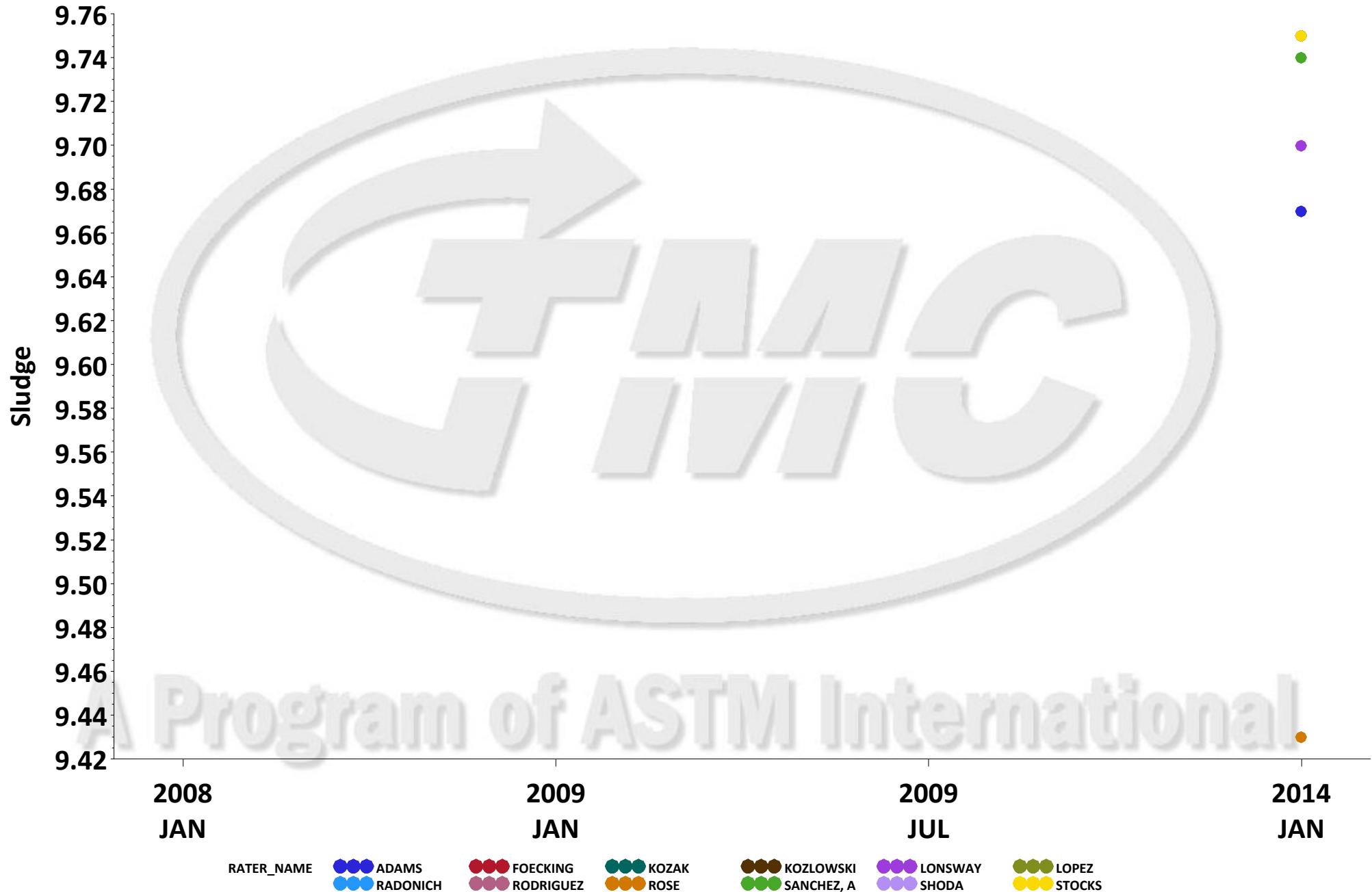
# L-60-1 Workshop Sludge Over Time

PART\_ID=16



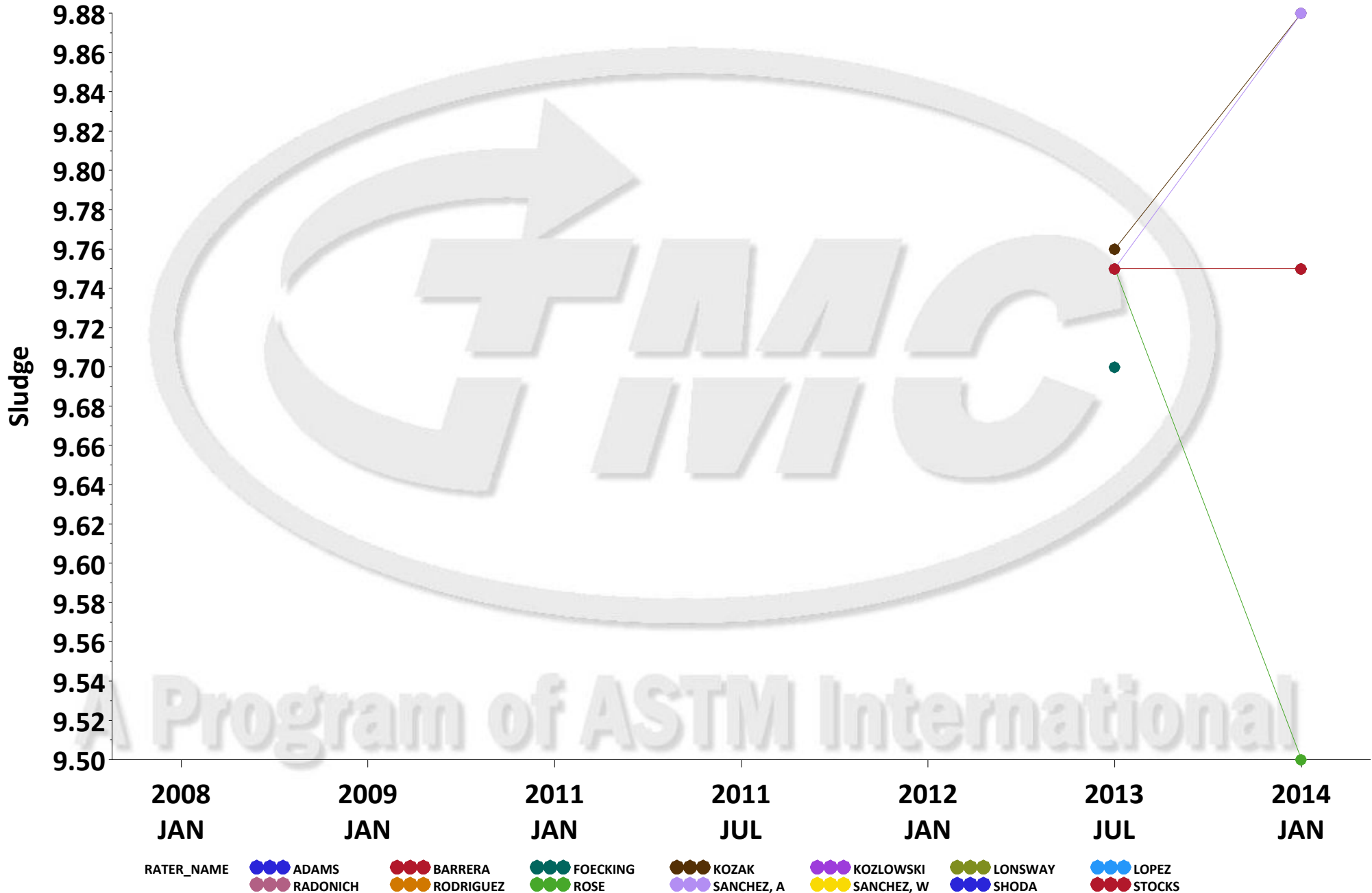
# L-60-1 Workshop Sludge Over Time

PART\_ID=17



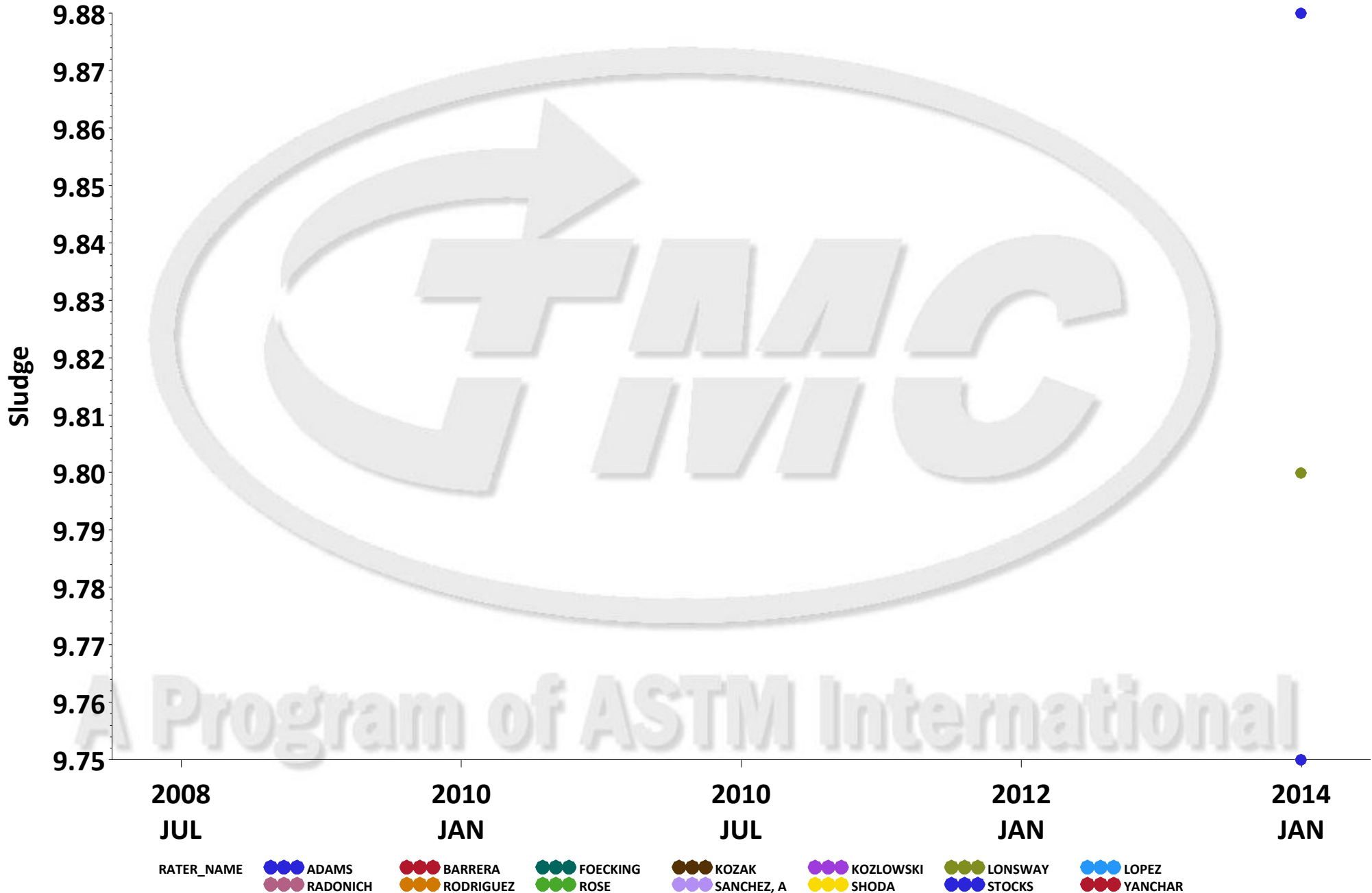
# L-60-1 Workshop Sludge Over Time

PART\_ID=18



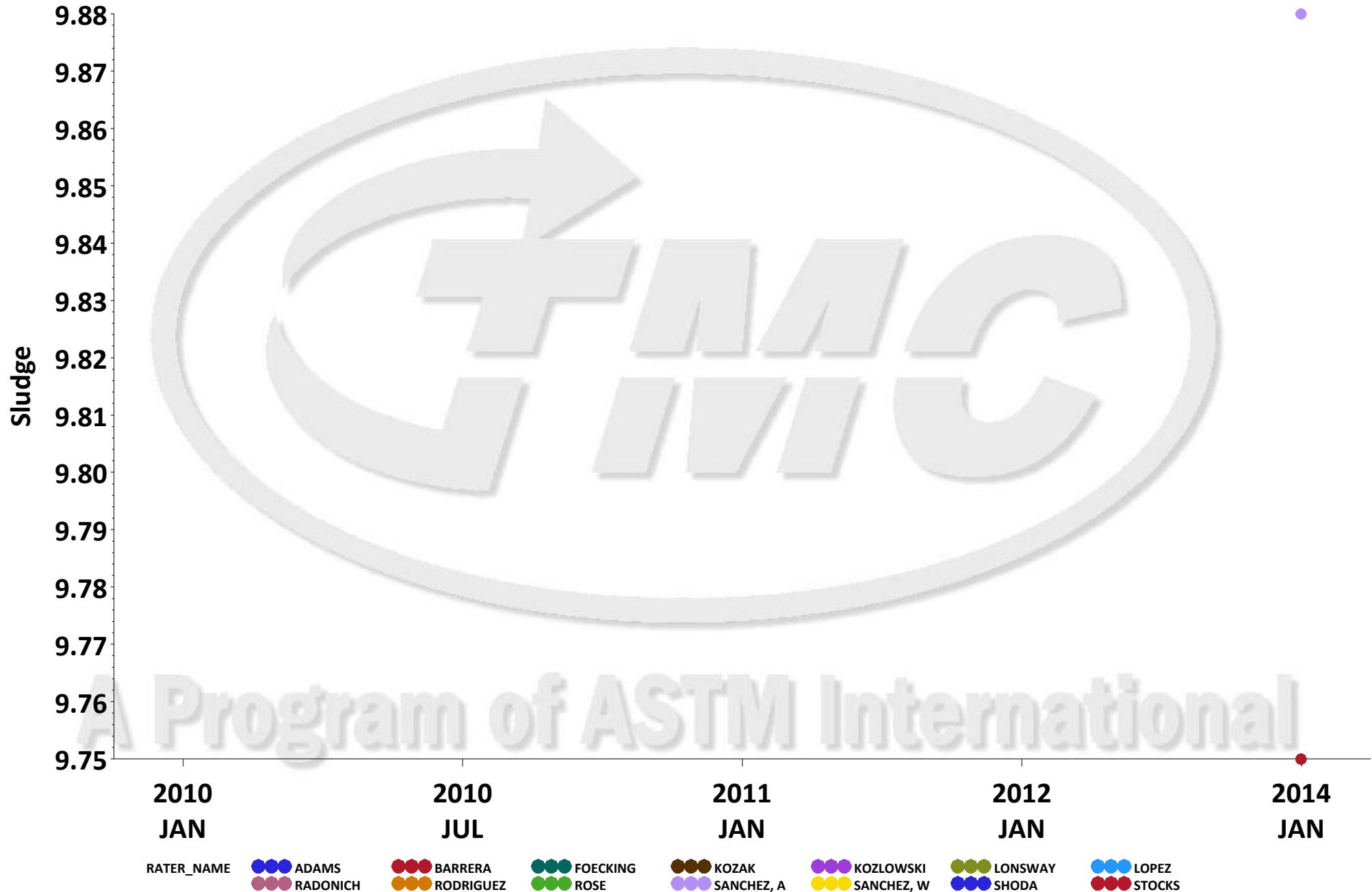
# L-60-1 Workshop Sludge Over Time

PART\_ID=19



# L-60-1 Workshop Sludge Over Time

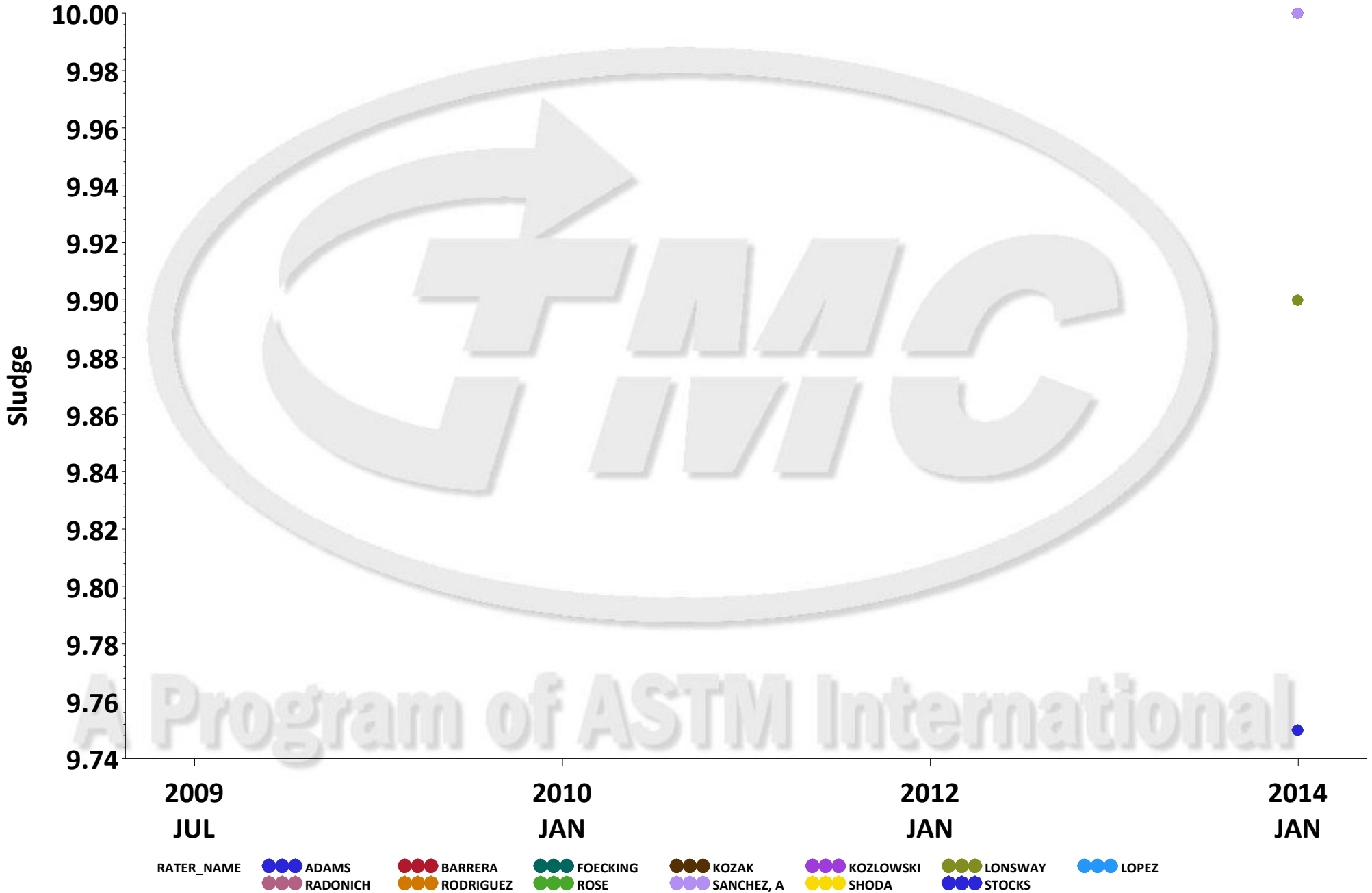
PART\_ID=21





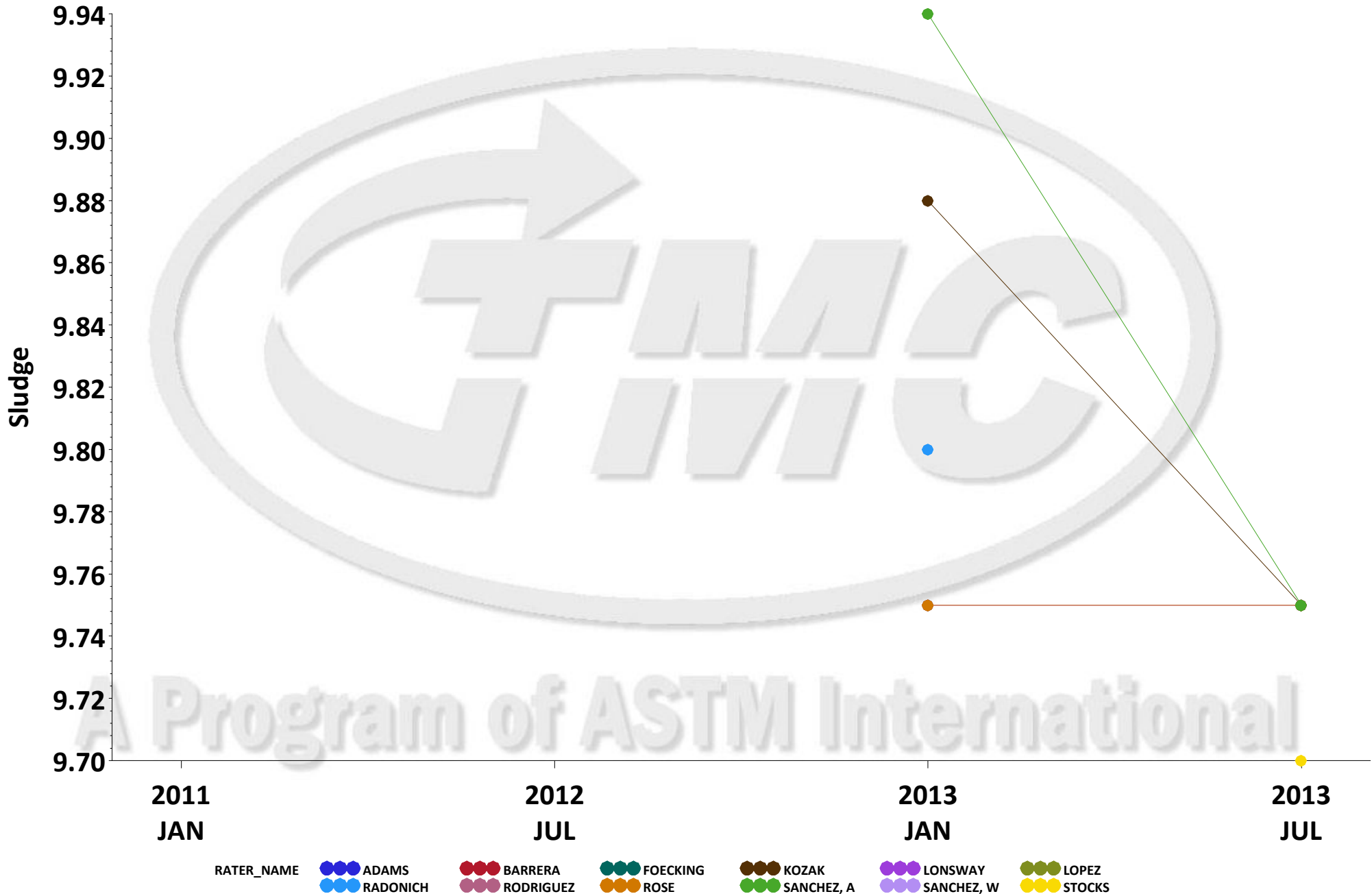
# L-60-1 Workshop Sludge Over Time

PART\_ID=22



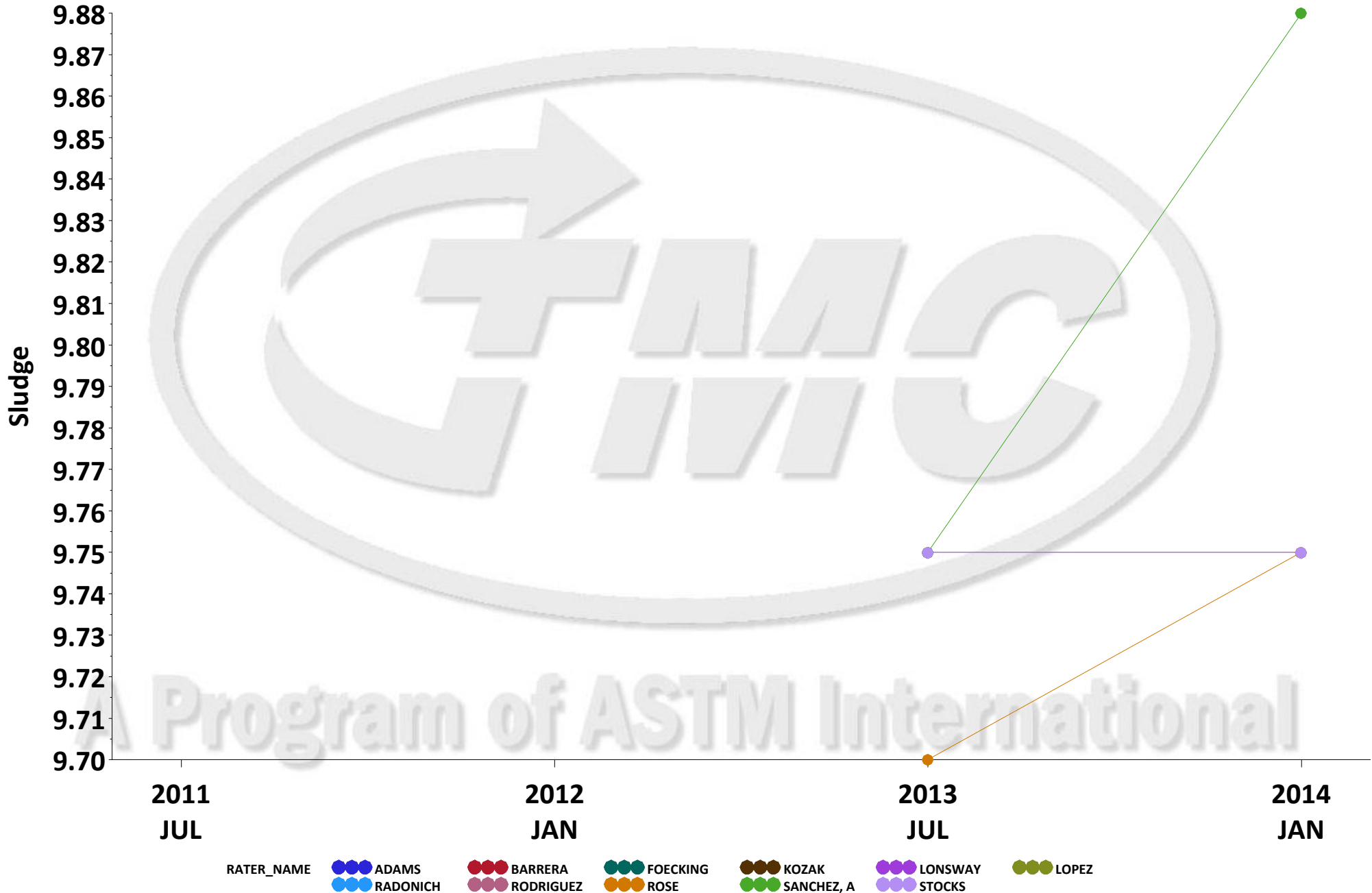
# L-60-1 Workshop Sludge Over Time

PART\_ID=24



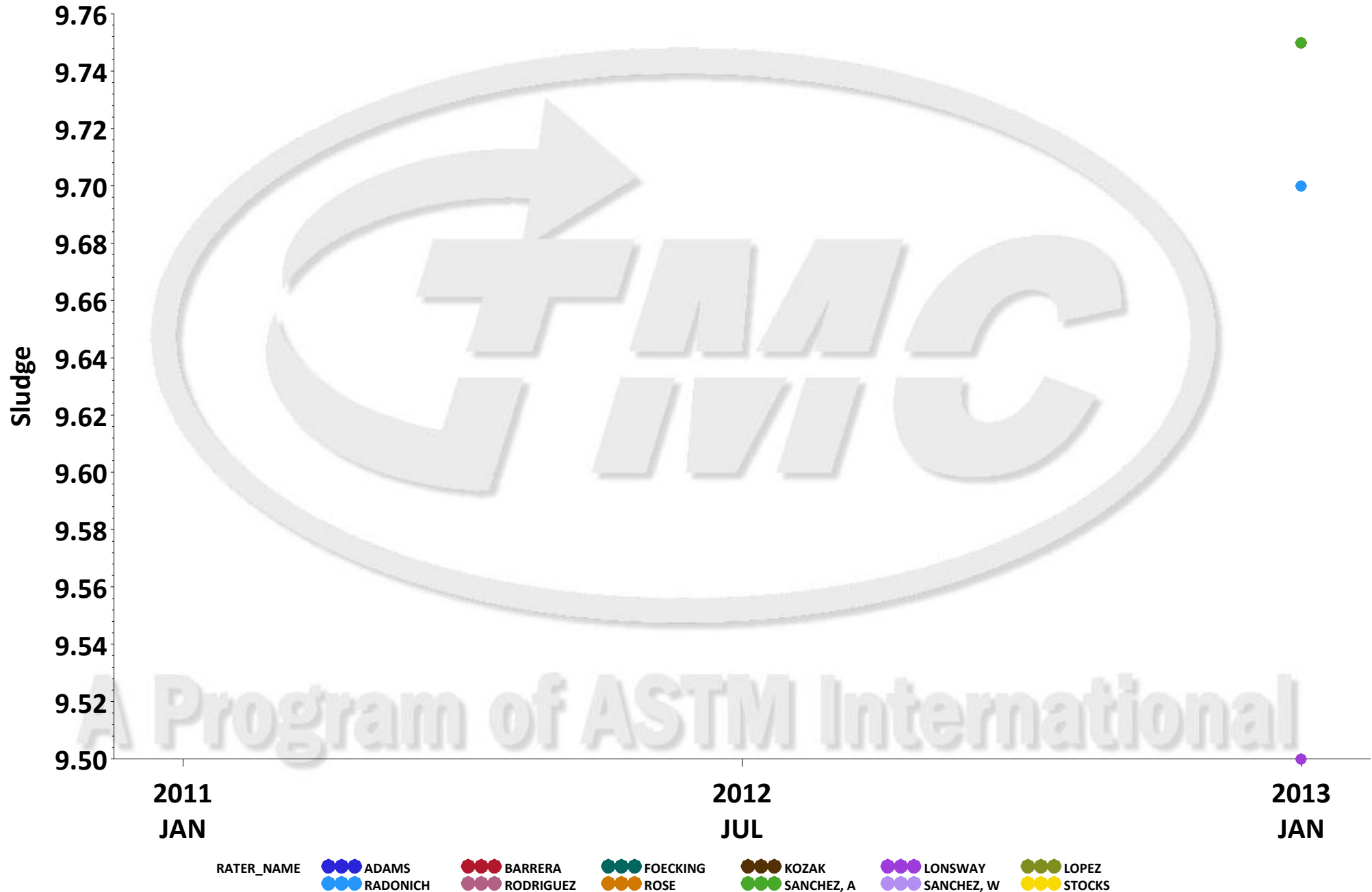
# L-60-1 Workshop Sludge Over Time

PART\_ID=25



# L-60-1 Workshop Sludge Over Time

PART\_ID=26



# L-60-1 Workshop Sludge Over Time

PART\_ID=28

