

Oil Seal Compatibility Test (OSCT) Surveillance Panel Meeting Minutes

July 23, 2025

Participants listed on attachment in Appendix.

An OSCT Surveillance Panel Teams meeting was called to order by D. Bell at 2:01 pm on 7/23/2025.

D. Bell provided background of the test labs failing %elongation and %volume change values for NI355 and NI356 in TMC 170 reference oil, but not TMC 169. Therefore, TMC plotted NI355 and NI356 qualification data from both labs in only TMC 169 against the TMC 169 acceptance band and prior NI lot data to determine if we could approve these lots with only TMC 169 as has been done in the past.

TMC plotted NI data (Appendix) for %elongation change, %volume change and hardness change from NI351 to NI356 against the TMC 169 acceptance band. The data shows that the qualification data of NI355 and NI356 are within the TMC 169 target range and thus passing for all 3 parameters.

A motion made by D. Bell and 2nd by B. Grinfield was unanimously (9 votes) approved to effectively immediately approve NI355 and NI356 for D5662 testing in only TMC 169 and suspend TMC 170 ref. oil. TEI was instructed to sell NI355 and NI356 in that order as the labs place orders.

Lab C was requested to complete their testing matrix of 2 runs per bath per elastomer with the TMC 170 replacement, TMC 170-1, so that we can vote on approving TMC 170-1 once data is available since Lab G already submitted passing data to TMC.

A motion made by D. Bell and 2nd by A. Goyal was unanimously (9 votes) approved to adjourn the OSCT Panel meeting at 2:22 pm.

Respectfully submitted,

A handwritten signature in black ink, appearing to read "Donald R. Bell". The signature is fluid and cursive, with the first name "Donald" and last name "Bell" clearly distinguishable.

Donald R. Bell/Chairman

Appendix



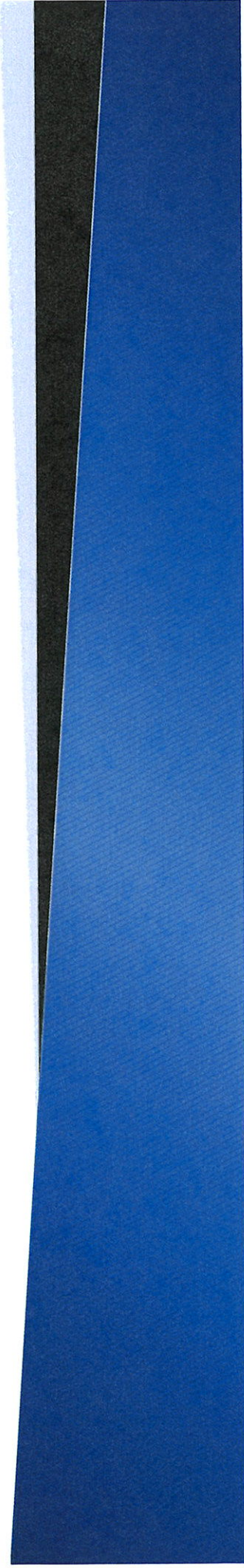
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Test Monitoring Center

<https://www.astmtmc.org>

OSCT Surveillance Panel Meeting NI355 & NI356 Approval Testing

Aug 2025



Nitrile Background

- Nitrile approval testing has had issue with reference oil 170.
 - The last few NI elastomer batches have seen volatility with reference oil 170 and labs have not been able to produce passing approval data on NI355 and NI356 with 170.
- At the May 2025 meeting it was decided to attempt to approve NI355 and NI356 using only reference oil 169.

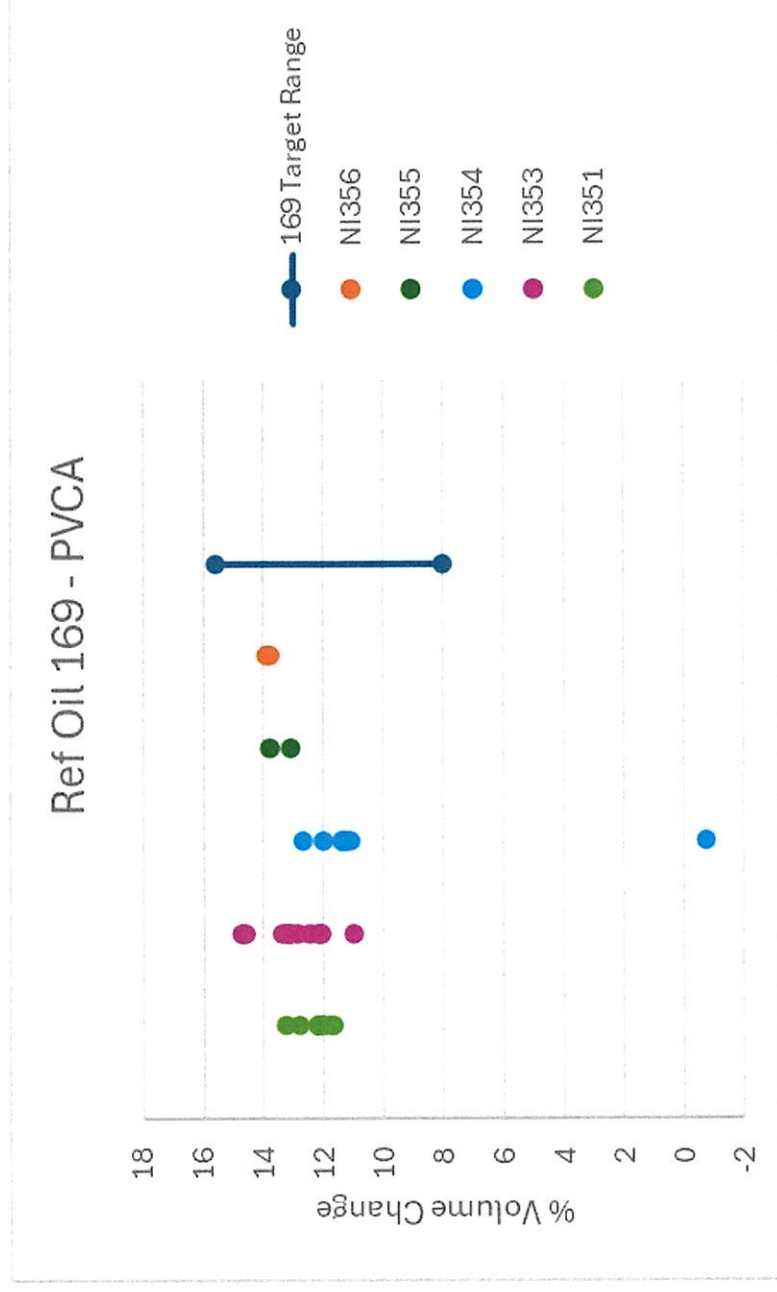
NI355 Approval Table

	testkey	ltmslab	val	ind	ltmsdate	CHART	PVCA	SAHA	PELA	ETYP	EBC	
169	Approval Run	187186-OSCT	G	NI	169	20240603	N	13.8	-8	-16.8	NI	NI355
	Accompanying Ref	187187-OSCT	G	AC	169	20240603	Y	12	-8	0.7	NI	NI354
	Approval Run	195392-OSCT	C	NI	169	20250707	N	13.1	-11.6	-22.8	NI	NI355
	Accompanying Ref	195388-OSCT	C	AC	169	20250707	Y	11.4	-10.8	-5.5	NI	NI354

NI356 Approval Table

	testkey	ltmslab	val	ind	ltmsdate	CHART	PVCA	SAHA	PELA	ETYP	EBC
169	Approval Run	192578-OSCT G	NI	169	20250310	N	13.9	-7.9	1.1	NI	NI356
	Accompanying Ref	192577-OSCT G	AC	169	20250310	Y	12.7	-7.7	1.2	NI	NI354
	Approval Run	195389-OSCT C	NI	169	20250707	N	13.8	-11.9	-19	NI	NI356
	Accompanying Ref	195388-OSCT C	AC	169	20250707	Y	11.4	-10.8	-5.5	NI	NI354

Reference Oil 169 – PVCA



Ref Oil 169 - SAHA

Shore Hardness Change

169 Target Range

NI356

NI355

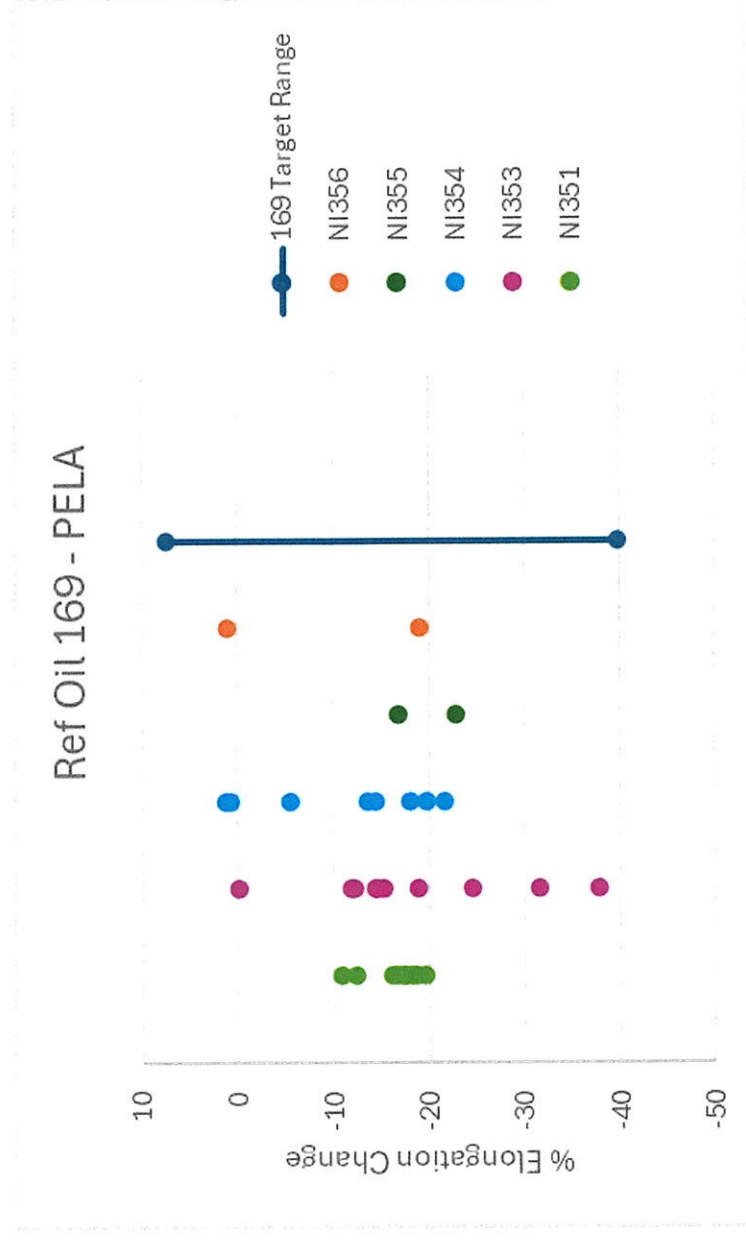
NI354

NI353

NI351

Sample	Shore Hardness Change
NI356	-7.8
NI355	-8.2
NI355	-11.5
NI354	-8.2
NI354	-8.3
NI354	-8.4
NI354	-9.8
NI354	-9.9
NI354	-10.0
NI354	-10.1
NI354	-10.2
NI354	-10.3
NI354	-10.4
NI354	-10.5
NI354	-10.6
NI354	-10.7
NI354	-10.8
NI354	-10.9
NI354	-11.0
NI354	-11.1
NI354	-11.2
NI354	-11.3
NI354	-11.4
NI354	-11.5
NI354	-11.6
NI354	-11.7
NI354	-11.8
NI354	-11.9
NI354	-12.0
NI354	-12.1
NI354	-12.2
NI354	-12.3
NI354	-12.4
NI354	-12.5
NI354	-12.6
NI354	-12.7
NI354	-12.8
NI354	-12.9
NI354	-13.0
NI354	-13.1
NI354	-13.2
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NI354	-13.6
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NI354	-13.9
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NI354	-14.5
NI354	-14.6
NI354	-14.7
NI354	-14.8
NI354	-14.9
NI354	-15.0
NI354	-15.1
NI354	-15.2
NI354	-15.3
NI354	-15.4
NI354	-15.5
NI354	-15.6
NI354	-15.7
NI354	-15.8
NI354	-15.9
NI354	-16.0
NI353	-8.5
NI353	-8.6
NI353	-9.8
NI353	-9.9
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NI353	-14.8
NI353	-14.9
NI353	-15.0
NI353	-15.1
NI353	-15.2
NI353	-15.3
NI353	-15.4
NI353	-15.5
NI353	-15.6
NI353	-15.7
NI353	-15.8
NI353	-15.9
NI353	-16.0
NI351	-11.5

Reference Oil 169 – PELA



Oil Seal Compatibility Surveillance Panel

Date:

7/23/2025

V = Voting

NV = Non-voting

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