

Lubricants Group Ballot – ISB Viscosity Technical Principles

The API Lubricants Group Standards (LGS) met on June 23, 2026, during ASTM in Chicago. The Lubricants Group agenda included a recommendation from the BOI/VGRA Task Force regarding ISB Viscosity Technical Principles. Eric Kalber, LG Chair representing Elizabeth Cisnarios, Chair of BOI/VGRA TF summarized the “*Recommendation for ISB Viscosity Technical Principles*” and the Statisticians Summary with lead to the BOI/VGRA Recommendation. (Attachment 1).

After reviewing the BOI/VGRA data analysis and Recommendation for ISB Viscosity Technical Principles, there was a motion to Ballot **Table F-xx - Technical Principles for New Viscosity Grade and Read Across**.

The motion details are:

Motion	Recommendation to update ISB Viscosity Technical Principles
Motion by:	Greer Gibbons
Second by:	Dan Pridemore
Lubricants Group Voice Vote	<u>Vote:</u> Approve Votes = 12 Negative Votes = None Abstain Votes = 1 <u>Result:</u> Approved by LGS to issue ballot. API to issue Electronic Ballot

Ballot Table F-xx - Technical Principles for New Viscosity Grade and Read Across. (Below)

Table F-xx - Technical Principles for New Viscosity Grade and Read Across		
	Heavy Duty Engine Oils	ISB Viscosity Test
A	Detergent (dispersant)-inhibitor (DI) content of read-across viscosity grade shall be equal to or higher than that of original viscosity grade. Increase in DI is limited to maximum allowed by ACC Code of Practice.	✓
B	Base stock blend kinematic viscosity at 100°C of read-across viscosity grade must be equal to or lower than that of original viscosity grade, considering precision of test method.	✓
C	Viscosity modifier (VM) content of read-across viscosity grade must be equal to or higher than that of original viscosity grade.	NA and Note 3
Notes for Table F-xx:		
1.	✓ = principle is applicable; NA = not applicable	
2.	New viscosity grades and associated read-across can only be added after review by the API BOI/VGRA Task Force and approval by the API Lubricants Standards Group.	
3.	This technical principle only applies to nondispersant-type VM (NDVM). For dispersant-type VM (DVM) refer to VGRA Table F-yy.	

Lubricants Group Members should use the API Ballot System to cast their vote and make comments. The Ballot Link is: <http://Ballots.api.org>. The LG ballots will be counted with comments resolved before the ballot result is determined.

Non-Lubricants Group Members may comment using the API Ballot system. The Ballot Link is: <http://Ballots.api.org>. All comments will be resolved before the ballot is considered passing.

LG Ballot Dates:

- Ballot Issue Date: July 10, 2026
- Ballot Close Date: August 10, 2026.

The Ballot will close on August, 2026, approximately 30 days after posting. All votes and comments must be received by the Ballot Close Date to be considered. If approved the effective date will be the Ballot Issue Date.

ATTACHMENT 1

API 1509 Draft Wording

Table F-xx - Technical Principles for New Viscosity Grade and Read Across

Recommendation to
Lubricants Group for
ISB Viscosity VGRA
Technical Principles Ballot



Recommendation for ISB Viscosity Technical Principles

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Motion: Recommendation for ISB Viscosity Technical Principles

- Recommendation to update ISB Viscosity Technical Principles

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Recommendation to update ISB Viscosity Technical Principles

- Motion by: Greer Gibbons
- Seconded by Dan Pridemore
- Affirmative: 12
- Negative: 0
- Abstain: 1

ATTACHMENT 2

Analysis Details for ISB Viscosity Technical Principles

Statisticians Summary from Presentation at May BOI/VGRA TF Meeting

- 31 Matrix Results analyzed with and without severity adjustments and with and without LM result on oil ISBV9; ANOVA method used
 - All analyses provided same conclusions
- Overall 'fit' of models is extremely 'good'
 - Model s equal to or lower than LTMS s
 - All R-Squared from base model >97% and all Predicted R-Squared (guards against overfitting) >92% (except for MRV)
- Test Results are influenced by:
 - Technology: Large Impact (T3 'better' than T2 which is 'better' than T1)
 - Viscosity Grade: Large Impact (5W-20 'better' than 10W-30 which is 'better' than 15W-40)
 - Base Oil: Impact (Higher Saturates better than Lower Saturates; Group III 'slightly better' than Group II pool)
 - Lab: Impact (G and A 'slightly better' than B)
- VM impact observed at 4cSt parameter, no impact at 6cSt, 12cSt or 15cSt
 - Prior decision: move forward with more restrictive read due to 4cst (note that 4cst is NOT a performance parameter)
 - BOI/VGRA group to continue to evaluate/review for ways to expand VM read