

# Volvo T-13 Reference Oil Suggestions

August 28, 2023 Meeting

# Volvo T-13 Reference Oil Offerings

- This Surveillance Panel asked for NCDT to consider a new reference for the Volvo T-13. Below are the current offerings received by TMC. Matrix Design TF will meet on Sept 6 to discuss these oils, but wanted to get some opinion from the SP beforehand.

Supplier	Test	Oil	%P	%S	%SASH	Viscosity Grade	HTHS	Base Stock Group	FTIR	%KV40 Increase
PC-12 Limits									<b>80</b>	<b>50</b>
A	T-13	1A*	0.081	0.202	0.85	5W-30	3.0	III	<b>80</b>	<b>22.8</b>
		1B*	0.077	0.206	0.85	5W-30	2.9	III	<b>96.4</b>	<b>39.8</b>
A	T-13	2A**	0.078	0.333	0.86	10W-30	3.5	II	<b>87.6</b>	<b>28.9</b>
		2B**	0.079	0.345	0.83	10W-30	3.5	II	<b>84.4</b>	<b>32.2</b>
		2C**	0.080	0.336	0.85	10W-30	3.5	II	<b>77.2</b>	<b>24.2</b>
B	T-13	A***	0.078	0.29	0.95	5W-30	3.6	III	<b>81.0</b>	<b>24.6</b>
B	T-13	C***	0.078	0.29	0.95	10W-40	4.3	II + III	<b>79.5</b>	<b>26.9</b>

\* (1A, 1B) are within minor modifications of one another. We would propose to offer Oil 1A as this performed in the test at the limit for FTIR.

\*\* (2A, 2B, 2C) are all within minor modifications of one another. These oils provide the range of values that we have obtained for this oil technology. Depending on the target value desire of the Surveillance Panel any of these three oils or a modification between them can be offered as the final reference oil. Also, the oils tested were 10W-30  $\geq$  3.5 cP HTHS. These oils can be provided at 10W-30 FA-4 viscosities in the same base stock slate as these oils were tested.

\*\*\* Same additive is each tested oil. Can offer either oil as the reference oil candidate