

Supplementary Material

Tribological improvement of low-viscosity nanolubricants: MoO₃, MoS₂, WS₂ and WC nanoparticles as additives

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Table S1. Viscosity, $\eta/\text{mPa}\cdot\text{s}$, of the PAO4 and MoS₂ lubricants as a function of temperature at 0.1 MPa obtained with the Anton Paar Stabinger SVM 3000.

T/K	$\eta/\text{mPa}\cdot\text{s}$	T/K	$\eta/\text{mPa}\cdot\text{s}$	T/K	$\eta/\text{mPa}\cdot\text{s}$
<i>PAO4</i>					
278.15	67.276	313.15	14.248	348.15	5.1304
283.15	51.492	318.15	12.003	353.15	4.5652
288.15	40.11	323.15	10.209	358.15	4.088
293.15	31.729	328.15	8.7613	363.15	3.6848
298.15	25.679	333.15	7.5819	368.15	3.3415
303.15	20.75	338.15	6.611	373.15	3.0485
308.15	17.092	343.15	5.8036		
<i>99.90 wt % PAO4 + 0.10 wt % MoS₂</i>					
278.15	67.721	313.15	14.293	348.15	5.1161
283.15	51.741	318.15	12.039	353.15	4.5459
288.15	40.274	323.15	10.237	358.15	4.0528
293.15	31.851	328.15	8.7844	363.15	3.6396
298.15	25.778	333.15	7.5926	368.15	3.2834
303.15	20.811	338.15	6.6083	373.15	2.9949
308.15	17.147	343.15	5.7955		
<i>99.00 wt % PAO4 + 1.00 wt % MoS₂</i>					
278.15	68.156	313.15	14.364	348.15	5.1528
283.15	52.054	318.15	12.098	353.15	4.5787
288.15	40.505	323.15	10.288	358.15	4.0976
293.15	32.032	328.15	8.8269	363.15	3.6921
298.15	25.913	333.15	7.635	368.15	3.3187
303.15	20.913	338.15	6.6505	373.15	3.0138
308.15	17.231	343.15	5.8346		