

Characterization of base oil and additive oxidation products from formulated lubricant by ultra-high resolution mass spectrometry. Supplementary information

Oscar Lacroix-Andrivet^{1,2,3}, Marie Hubert-Roux^{2,3}, Corinne Loutelier Bourhis², Samira Mouladi¹, Anna Luiza Mendes Siqueira^{1,2}, Carlos Afonso^{2,3}

1 TotalEnergies Marketing Services, Research Center, 69360 Solaize, France

2 Normandie Univ, COBRA, UMR6014 and FR3038, Université de Rouen, INSA de Rouen, CNRS, IRCOF, 1 rue Tesnière, 76821, Mont-Saint-Aignan Cedex, France

3 International Joint Laboratory - iC2MC: Complex Matrices Molecular Characterization, TRTG, BP 27, 76700 Harfleur, France

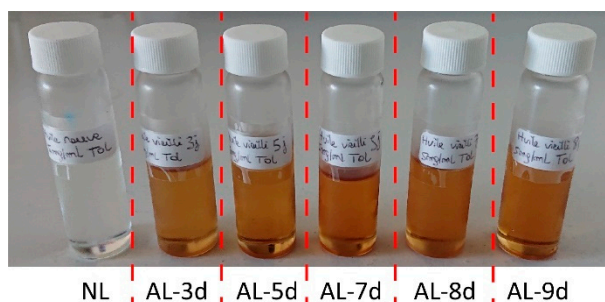


Figure S1. Stock solution of NL and AL samples solubilized in toluene

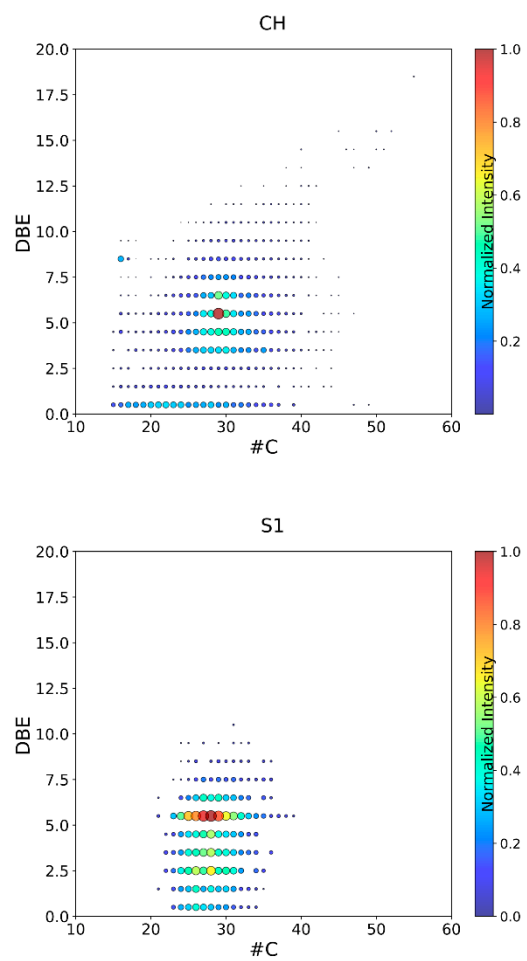


Figure S2. DBE vs C# maps of HC and S1 compounds class obtained by APCI for the native lubricant sample

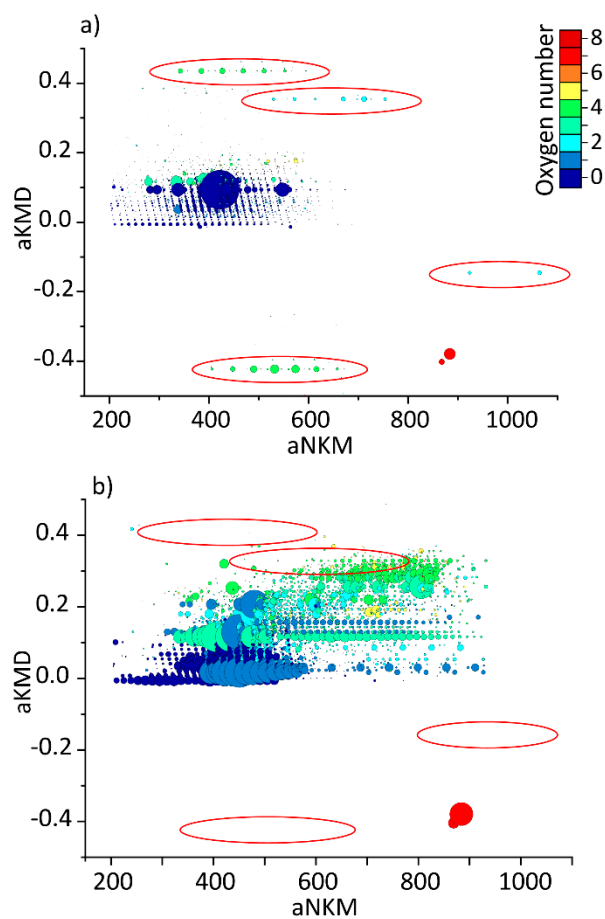


Figure S3. aKMD plots obtained with APCI data for: a) NL, and b) AL-3d

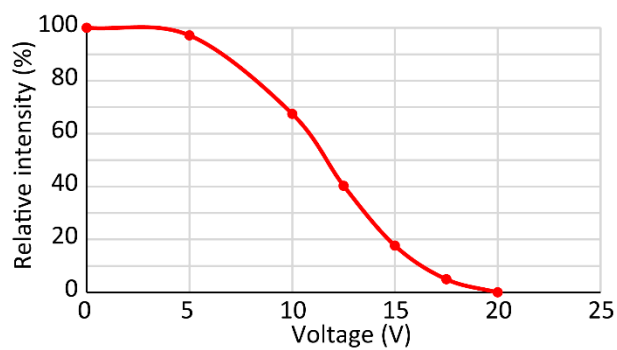


Figure S4. Energy resolved mass spectra (APCI) of the ion at m/z 450.37