

Questions and Answers for CRC Project CM-137-25/ E-147 'AKI Study at Altitude with Modern Vehicles' submission

Q: Please provide a list of the specific ASTM methods for each fuel sample CRC wishes to be included as specified on Page 4 of the RFP, "Contractor to provide fuel analysis estimates."

A:

CM-137-25 / E-147 AKI Study at Altitude with Modern Vehicles (AKI @ Altitude) Fuel Property Tests		
Specification	Test Method	Note
Lower heating value (MJ/kg)	ASTM D240	
RON	ASTM D2699	
MON	ASTM D2700	
Washed and Unwashed gums (mg/100mL)	ASTM D381	
Density (g/mL)	ASTM D4052	
Ethanol (vol. %)	ASTM D4815 or D5599	
Total other oxygenates (vol. %)	ASTM D4815 or D5599	
DVPE (kPa)	ASTM D5191	
Carbon, hydrogen and oxygen (wt. %)	ASTM D5291	
Detailed Hydrocarbon Analysis (DHA)	ASTM D6730 or by VUV D8369	
Sulfur (ppm)	ASTM D5453	
Benzene (wt. %)	ASTM D5769	
Particulate contamination	ASTM D7619	
IBP (°C)	ASTM D86	include all data in 1°C (or 1%) resolution if possible
T10 (°C)	ASTM D86	
T50 (°C)	ASTM D86	
T90 (°C)	ASTM D86	
FBP	ASTM D86	
Residue (%)	ASTM D86	
Octane sensitivity	calc	
AKI	calc	
SimDis - @0.5% incr.	ASTM D7096 Enhanced (*)	