

CALIFORNIA STATE SCIENCE FAIR 2010 PROJECT SUMMARY

Name(s)	Project Number	
Robert K. Olson	S0213	
Project Title		
Synthetic Motor Oil: Is It Worth the Extra Money?		
Objectives/Cools Abstra	act	
Objectives/Goals Discovering if Synthetic motor oil has less variation	in viscosity than regular oil over a range of	
temperature.		
Methods/Materials		
3x Cylinderical Containers (Water Bottles)		
1x Metal Sphere 1x Glass Marble		
3x Different types of Oil		
-30W (Oil with no additives)		
-15W-40 (Oil with additives)		
-5W-30 (Synthetic Oil)		
1x Scale for measuring mass 1x Electric Thermometer		
1x Stopwatch		
1x Pencil		
1x Data Sheet for each type of oil		
1x Spoon (for getting marble out of the marble)		
1x Refrigerator and freezer 1x Stove and pot		
Lots of Paper Towels		
Results		
The Synthetic Oil stays at the same viscocity over a drastically.	wide range of temperature, while the others change	
Conclusions/Discussion	· · · 1	
The Synthetic Motor Oil is the best out of all the oils	tested.	
Summary Statement		
I measure how the Synthetic Oil is different than the	other oils	
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Help Received		
Dad helped glue paper onto the board		