

Overall report severity based on comments.

Account Information		Component Information		Sample Information	
Account Number: OILANA-1128-0000 Company Name: CHES CAIN Contact: Address: 1312 SNYDER CIRCLE SIOUX FALLS, SD 57106 US Phone Number: 605-361-4075		Component ID: 57 STUDEBAKER HAWK E Secondary ID: BMK 23-EABP90 Component Type: UNLEADED GASOLINE ENGINE Manufacturer: STUDEBAKER Model: 4.7L Application: UNKNOWN Sump Capacity: 0		Tracking Number: 11085Y00080 Lab Number: I-193411 Lab Location: Indianapolis Data Analyst: KMS Sampled: 10-Jun-2011 Received: 16-Jun-2011 Completed: 20-Jun-2011	
Filter Information		Miscellaneous Information		Product Information	
Filter Type: BYPASS Micron Rating: 15		Miscellaneous:		Product Manufacturer: CASTROL Product Name: GTX Viscosity Grade: SAE 10W40	
Comments	SUGGEST monitoring OIL PRESSURE closely between samples; LEAD is at a SEVERE LEVEL and may be OVERLAY METAL from MAIN/ROD BEARINGS; or; If leaded gasoline is being used in this unit, lead at this level may not be significant. If so, disregard the flag for lead; Silicon is at a MODERATE LEVEL; SILICON sources can be abrasives (dirt, Alumina Silica), seals and gasket material, lube additive or lube supplement, and/or environmental contaminant; Action; Sample information has been added or tests have been rerun or additional testing was added and the report has been regenerated;				

Sample #	Wear Metals (ppm)										Contaminant Metals (ppm)		Multi-Source Metals (ppm)						Additive Metals (ppm)					
	Iron	Chromium	Nickel	Aluminum	Copper	Lead	Tin	Cadmium	Silver	Vanadium	Silicon	Sodium	Potassium	Titanium	Molybdenum	Antimony	Manganese	Lithium	Boron	Magnesium	Calcium	Barium	Phosphorous	Zinc
1	26	0	0	1	11	310	1	0	0	0	48	1	3	0	13	0	0	0	61	20	2431	8	791	828

Sample #	Sample Information								Contaminants			Fluid Properties					
	Date Sampled	Date Received	Lube Time	Unit Time	Lube Change	Lube Added	Filter Change	Fuel Dilution	Soot	Water	Viscosity 40°C	Viscosity 100 °C	Acid Number	Base Number	Oxidation	Nitration	
								% Vol	% Vol	% Vol	cSt	cSt	mg KOH/g	mg KOH/g	abs/cm	abs/cm	
1	10-Jun-2011	16-Jun-2011	300	1MONT	No		No	<1 - Estimate	<.1	<.1 - FTIR		12.6		6.92	12	12	

Sample #	Particle Count (particles/mL)										Additional Testing	
	ISO Code	> 4 µm	> 6 µm	> 10 µm	> 14 µm	> 21 µm	> 38 µm	> 70 µm	> 100 µm	Test Method		
	Based On 4/6/14											
1												

Comments are advisory only and are based on the assumption that the sample and data submitted are valid. Missing fluid or component information limits the evaluation. No warranty is expressed or implied.