Lubricant Analysis Report

Oil Analyzers INC.

877-458-3315

0	1	2	3	4
NORMAL		ABNORMAL		CRITICAL

Overall report severity based on comments.

Account Information		Component Information		Sample Information	
Account Number:	OILANA-1128-0000	Component ID:	EAGLE E	Tracking Number:	12075F05989
Company Name:	CHES CAIN	Secondary ID:	W/BYPASS KIT BMK-21 1983	Lab Number:	I-428687
Contact:		Component Type:	UNLEADED GASOLINE ENGINE	Lab Location:	Indianapolis
Address:	1312 SNYDER CIRCLE	Manufacturer:	AMERICAN MOTORS CORPORATION	Data Analyst:	RMF
	SIOUX FALLS, SD 57106 US	Model:	EAGLE I6	Sampled:	03-Jun-2013
Phone Number:	605-361-4075	Application:	TRANSPORTATION	Received:	07-Jun-2013
		Sump Capacity:	0 gal	Completed:	11-Jun-2013

Filter Information		Miscellaneous Information		Product Information	
Filter Type:	FULLFLOW & BYPASS	Wildcard 1:		Product Manufacturer:	AMSOIL
Micron Rating:	15	Wildcard 2:		Product Name:	HDD SERIES 3000 SYN HD DIESEL
		Wildcard 3:		Viscosity Grade:	SAE 5W30
		Miscellaneous:			

Comments

Flagged data does not indicate an immediate need for maintenance action. Continue to observe the trend and monitor equipment and fluid conditions. Base Number is MODERATELY LOW. Silicon is at a MINOR LEVEL; SILICON sources can be abrasives (dirt, Alumina Silica), seals and gasket material, lube additive or lube supplement, and/or environmental contaminant; Manganese sources in engines include manganese/bronze valve guides and/or a fuel additive; Molybdenum is slightly high for this lubricant. Oil is suitable for continued use. Re-sample in 3,500 miles or 65 hours. Sample information has been added or tests have been rerun or additional testing was added and the report has been regenerated;

	Wear Metals (ppm)										Contaminant Metals (ppm)			Multi-Source Metals (ppm)						Additive Metals (ppm)				
Sample #	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	39	0	0	3	4	13	2	2	0	0	15	7	2	0	18	0	0	0	25	48	3048	0	1069	1231
2	77	1	1	6	3	26	0	0	0	0	27	18	3	0	10	1	75	0	2	23	3267	0	978	1215
3	71	1	1	4	4	20	1	0	0	0	32	24	2	0	10	0	45	0	3	23	3347	0	992	1203
4	45	1	0	4	3	16	0	0	0	0	21	20	2	0	45	0	7	0	4	11	2310	0	987	1023
5	40	0	0	3	3	18	1	0	0	0	28	13	2	0	44	0	6	0	2	8	2245	0	939	991
6	33	0	0	3	2	11	0	0	0	0	20	11	0	0	12	0	10	0	1	16	3014	0	1034	1274

	Sample Information							Contaminants			Fluid Properties					
Sample #	Date Sampled	Date Received	Lube Time mi	Unit Time mi	Lube Change	Lube Added gal	Filter Change	Fuel Dilution % Vol	Soot % Vol	Water % Vol	Viscosity 40°C cSt	Viscosity 100 °C cSt	Acid Number mg KOH/g	Base Number mg KOH/g	Oxidation abs/cm	Nitration abs/0.1 mm
1	26-Sep-2009	30-Sep-2009	91000	93000	Yes	1	Unk	<1 - Estimate	<.1	<.1 - FTIR		13.3		6.83	7	9
2	11-Jan-2011	14-Feb-2011	9	107300	No	1	Yes	<1 - Estimate	<.1 - FTIR	<.1 - FTIR		13.6		2.70	41	27
3	10-Jun-2011	15-Jun-2011	3900		No	1	Yes	<1 - Estimate	<.1	<.1 - FTIR		15.1		2.59	48	29
4	17-Jul-2011	07-Feb-2012	114551		Unk		No	<1 - Estimate	<.1 - FTIR	<.1 - FTIR		11.2		2.24	35	20
5	22-Aug-2012	31-Aug-2012	2500	116000	No	2	Yes	<1 - Estimate	<.1	<.1 - FTIR		10.9		2.04	44	11
6	03-Jun-2013	07-Jun-2013	5000	119880	No	0	No	<1 - Estimate	<.1	<.1 - FTIR		10.9		3.50	53	12

	Particle Count (particles/mL)										Additional Testing
Sample #	ISO Code Based On 4/6/14	> 4 µm	> 6 µm	> 10 µm	> 14 µm	> 21 µm	> 38 µm	> 70 µm	> 100 µm	Test Method	
1	//										
2	//										
3	//										
4	//										
5	//										
6	//										

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.