

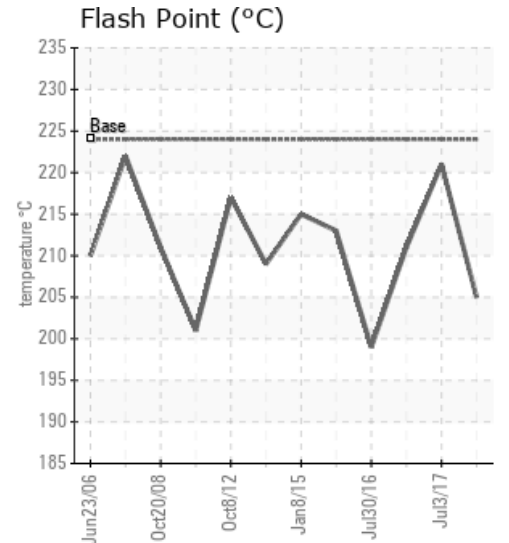
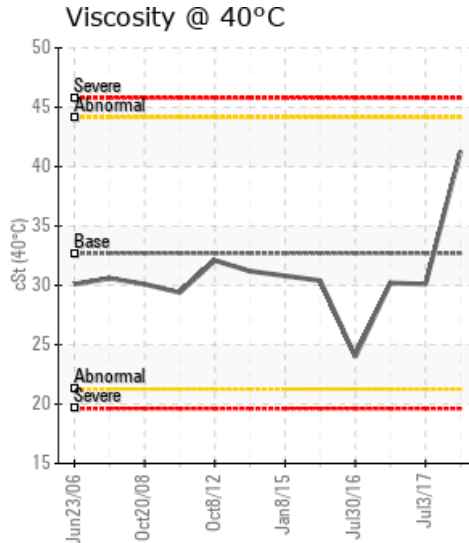
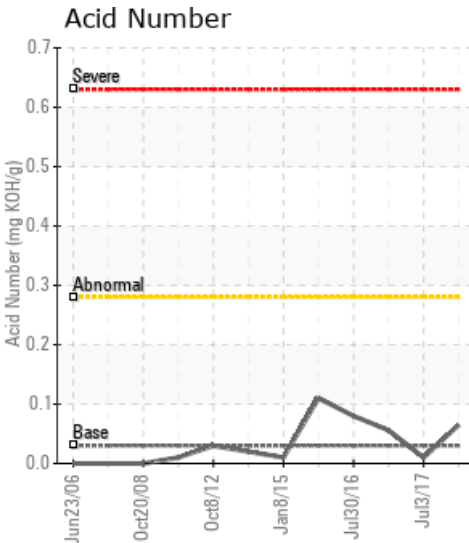
## UNIT 5013

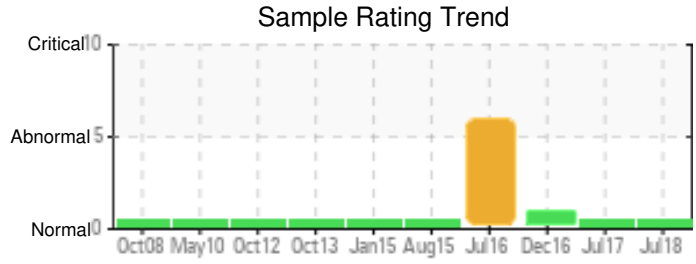
Customer: PTRHTF10082	System Information	Sample Information
JASPER RUBBER 1010 FIRST AVE JASPER, IN 47546 USA Attn: MIKE ACKERMAN Tel: (812)482-6666 E-Mail: mike@ackoil.com	System Volume: 600 gal Bulk Operating Temp: 424F / 218C Heating Source: Blanket: Fluid: PETRO CANADA CALFLO AF Make: KONUS	Lab No: 02229332 Analyst: Joe Goecke Sample Date: 07/12/18 Received Date: 07/19/18 Completed: 07/21/18

Recommendation: Oil looks great with little degradation, continue to use. Sample at next interval.

Comments:

Sample Date	Received Date	Fluid Age	Sample Location	Flash Point (COC)	Water (KF)	Viscosity (40°C)	Acid Number	Solids	GCD 10%	GCD 50%	GCD 90%	GCD % < 335°C
	mm/dd/yy			°F/°C	ppm	cSt	mg/KOH/g	%wt	°F/°C	°F/°C	°F/°C	%
07/12/18	07/19/18	59371h		401 / 205	8.0	41.3	0.065	0.035	695 / 368	793 / 423	891 / 477	1.54
07/03/17	07/28/17	50513h		430 / 221	9.8	30.1	0.01	0.037	692 / 367	793 / 423	892 / 478	1.95
12/28/16	01/03/17	46028h		412 / 211	9.9	30.2	0.056	0.035	693 / 367	801 / 427	910 / 488	2.02
07/30/16	08/19/16	41721h		390 / 199	12.2	24.0	0.08	0.035	692 / 367	790 / 421	886 / 475	1.49
08/01/15	08/13/15	33001h		415 / 213	0.00	30.4	0.11	0.038	696 / 369	804 / 429	932 / 500	1.62
01/08/15	01/12/15	0h		419 / 215	7.7	30.8	0.01	0.017	703 / 373	815 / 435	907 / 486	1.34
Baseline Data				435 / 224		32.7	0.03		693 / 367	790 / 421	887 / 475	2.5

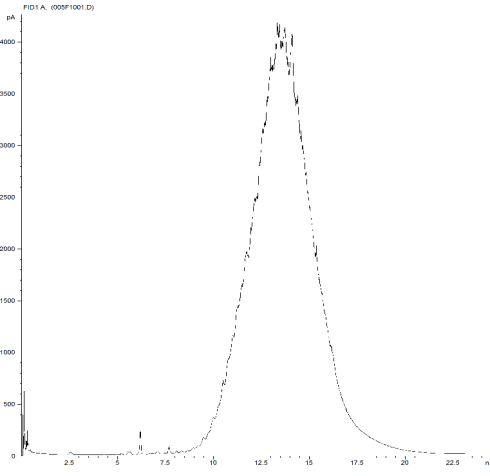




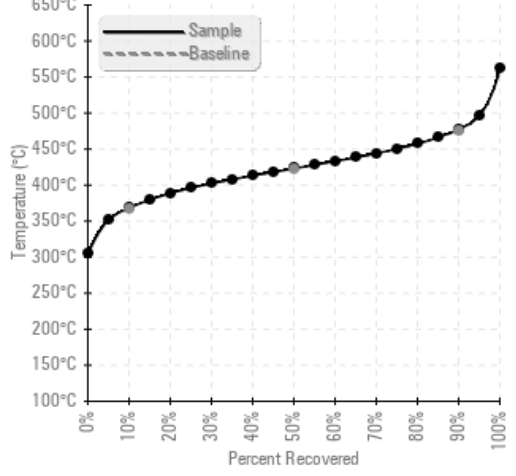
Sample Date	Iron	Chromium	Nickel	Aluminum	Copper	Lead	Tin	Cadmium	Silver	Vanadium	Silicon	Sodium	Potassium	Titanium	Molybdenum	Antimony	Manganese	Lithium	Boron	Magnesium	Calcium	Barium	Phosphorus	Zinc
07/12/18	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	32	0
07/03/17	0	0	0	0	0	0	0	0	0	0	4	0	0	0	0	0	0	0	2	0	0	0	42	0
12/28/16	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	43	0
07/30/16	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	40	0
08/01/15	0	0	0	0	0	0	0	0	0	0	0	2	0	0	0	0	0	0	0	0	0	0	44	0
01/08/15	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	44	0
<b>Baseline Data</b>			0	0						0		0	0					0					270	

Elemental analysis results (above) in parts per million (ppm). [10,000 ppm = 1.0%]

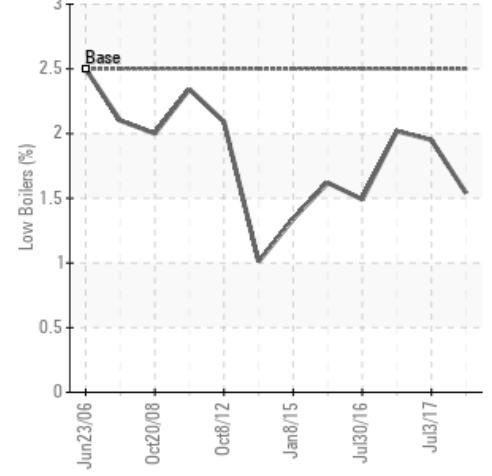
GCD Spectrum



Gas Chromatography Distillation



% Boiling < 335°C



Historical Comments	
07/03/17	Analysis looks good, no action required resample at next interval.
12/28/16	Current system looks to be in good condition. Continue to operate and resample at normal interval. (GCD) 90% Distillation Point is marginally high.
07/30/16	Viscosity low, Flash point below 200, GCD<335 low. Resample at half normal frequency or consider changing part of fluid to increase viscosity and flash point
08/01/15	This sample is in good condition and suitable for further use. Sample again at next maintenance interval.
01/08/15	No issues with this sample. Re-sample at next maintenance interval.

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