

## KUIPER (MAXXTEC)

**Customer: PTRHTF40048**  
 PIET DE WIT SNACKS  
 ALUMINIUMSTRAAT 84  
 ZOETERMEER 2718RA  
 ZOETERMEER, 2718RA Netherlands  
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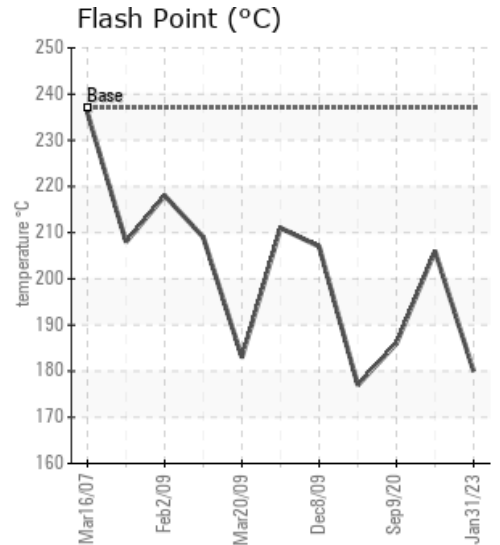
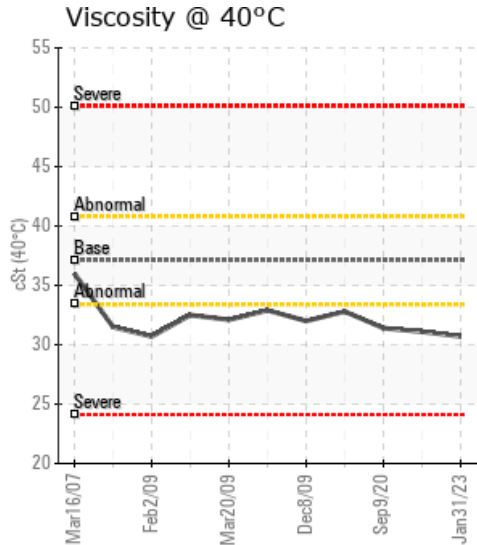
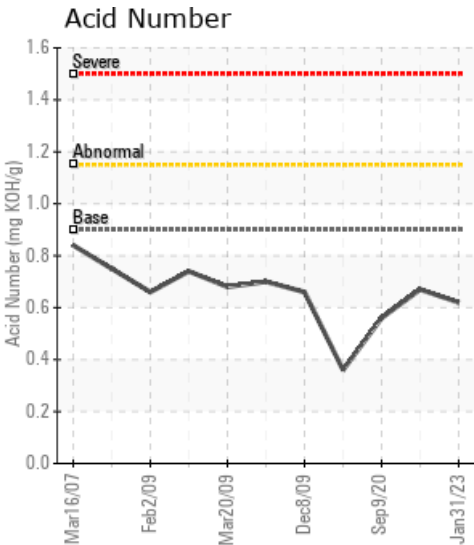
**System Information**  
 System Volume: 0 ltr  
 Bulk Operating Temp: 300F / 149C  
 Heating Source:  
 Blanket:  
 Fluid: PETRO CANADA PURITY FG HEAT TRANSFER FLUID  
 Make: KUIPER

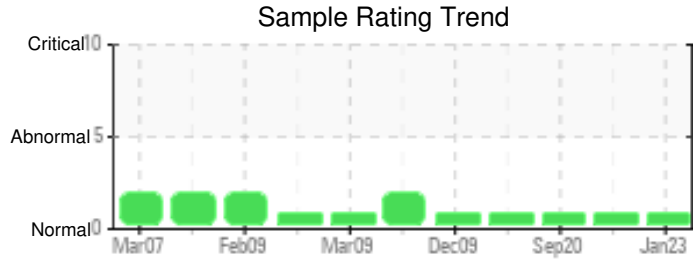
**Sample Information**  
 Lab No: 02537679  
 Analyst: Bill Quesnel CLS,OMA II,MLA-III,LLA-I  
 Sample Date: 01/31/23  
 Received Date: 02/06/23  
 Completed: 02/15/23  
 Bill Quesnel CLS,OMA II,MLA-III,LLA-I

Recommendation: We recommend that you vent the expansion tank to remove low boilers which assists in restoring the flash point of the fluid. Resample at the next service interval to monitor.

Comments: COC Flash Point is abnormally low.

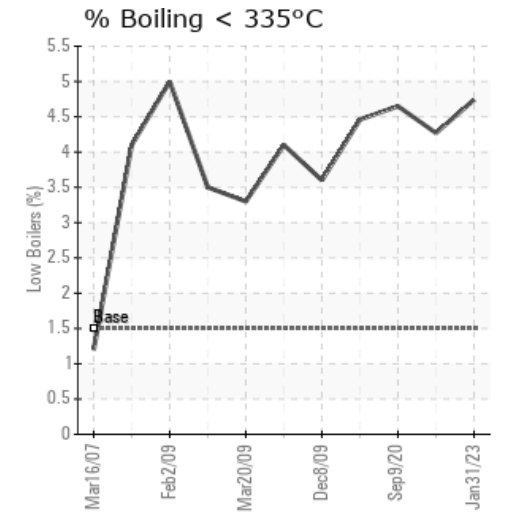
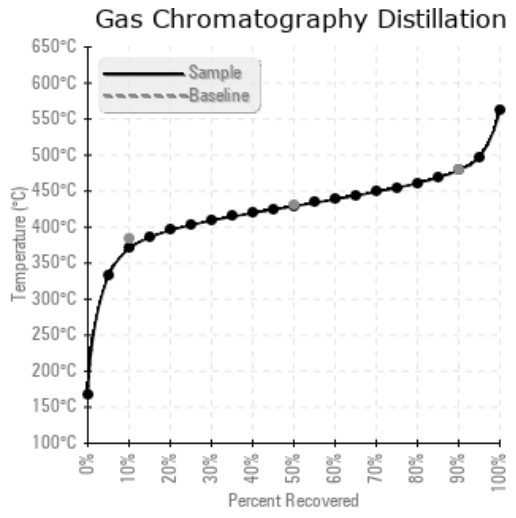
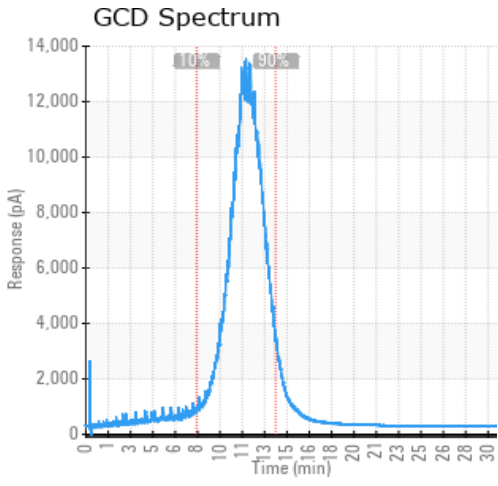
Sample Date	Received Date	Fluid Age	Sample Location	Flash Point (COC)	Water (KF)	Viscosity (40°C)	Acid Number	Solids	GCD 10%	GCD 50%	GCD 90%	GCD % < 335°C
	mm/dd/yy			°F/°C	ppm	cSt	mg/KOH/g	%wt	°F/°C	°F/°C	°F/°C	%
01/31/23	02/06/23	16.5y		356 / 180	25.4	30.7	0.62	0.055	699 / 370	804 / 429	894 / 479	4.74
01/15/21	01/22/21	14.5y		403 / 206	25.9	31.1	0.67	0.219	702 / 372	805 / 429	893 / 478	4.27
09/09/20	09/15/20	13.5y		367 / 186	20.8	31.4	0.56	0.124	699 / 371	804 / 429	891 / 477	4.65
03/05/15	03/12/15	8.0y		351 / 177	20.3	32.8	0.36	0.080	697 / 370	803 / 429	889 / 476	4.46
12/08/09	01/27/10	1.0y		405 / 207	18	32	0.66	0.02	702 / 372		896 / 480	3.6
Baseline Data				459 / 237		37.12	0.90		721 / 383	807 / 431	892 / 478	1.5





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
01/31/23	3	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	13	0
01/15/21	20	0	0	0	0	0	0	0	0	0	3	0	0	0	0	0	0	0	0	0	0	0	31	0
09/09/20	9	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	18	0
03/05/15	30	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	4	0	28	2
12/08/09	16	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	35	0
<b>Baseline Data</b>			0	0						0			0	0				0	0				230	

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



### Historical Comments

01/15/21	Fluid fit for further use. Send in new sample at next service interval.
09/09/20	Fluid fit for further use. GCD %<335 °C and GCD 10% still in proper state. Send in new sample on next routine. COC Flash Point is abnormally low.
03/05/15	A small amount of low boilers detected resulting in a lowering of the Flash Point. Suggest trying to remove low boilers if possible. Oil is still in very good condition. Recommend sampling at the next scheduled maintenance interval. COC Flash Point is marginally low. (GCD) 90% Distillation Point is marginally low.
12/08/09	

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