

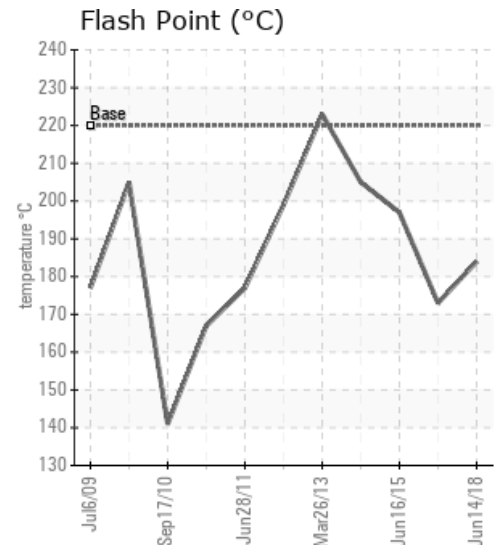
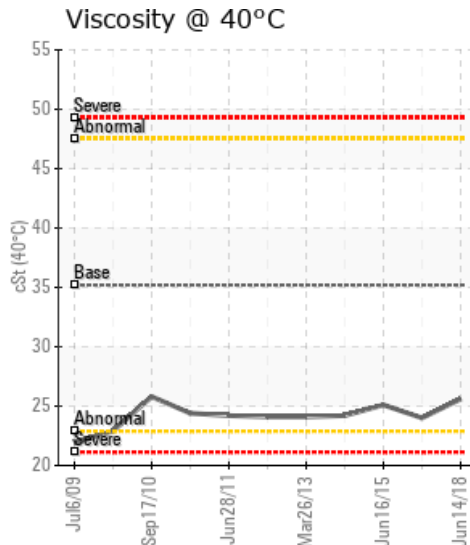
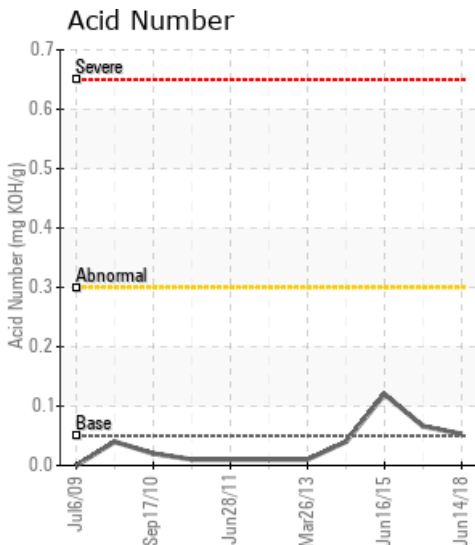
## WANSON

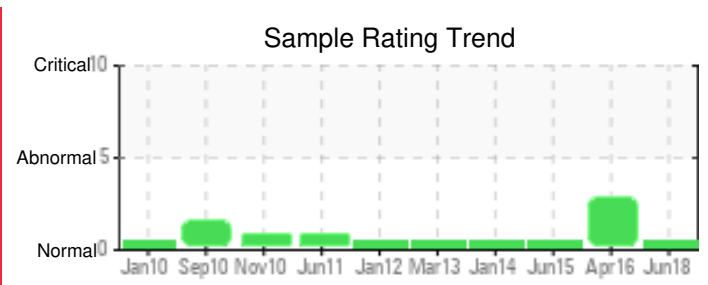
Customer: PTRHTF40025	System Information	Sample Information
ALBERT VAN ZOONEN BV GROTEWALLERWEG 4 NORTH HOLLAND SCHAGEN, NOR NETHERLANDS Attn: Maintenance Manager Tel: E-Mail:	System Volume: 1500 ltr Bulk Operating Temp: 275F / 135C Heating Source: Blanket: Fluid: SHELL THERMIA B Make: WANSON	Lab No: 02223626 Analyst: Philip Riley Sample Date: 06/14/18 Received Date: 06/21/18 Completed: 06/25/18 To discuss this report contact Philip Riley at (440)124-4378171

Recommendation: Competitor product (Shell Thermia B), do not have technical data to comment with accuracy on competitor product

Comments: COC Flash Point is marginally low. (GCD) 90% Distillation Point is marginally low.

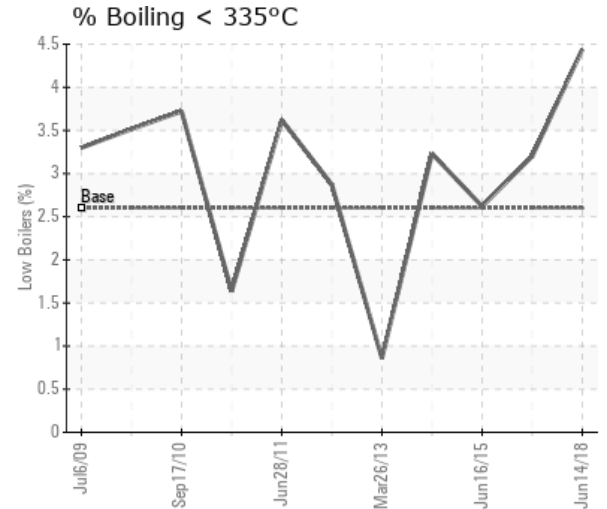
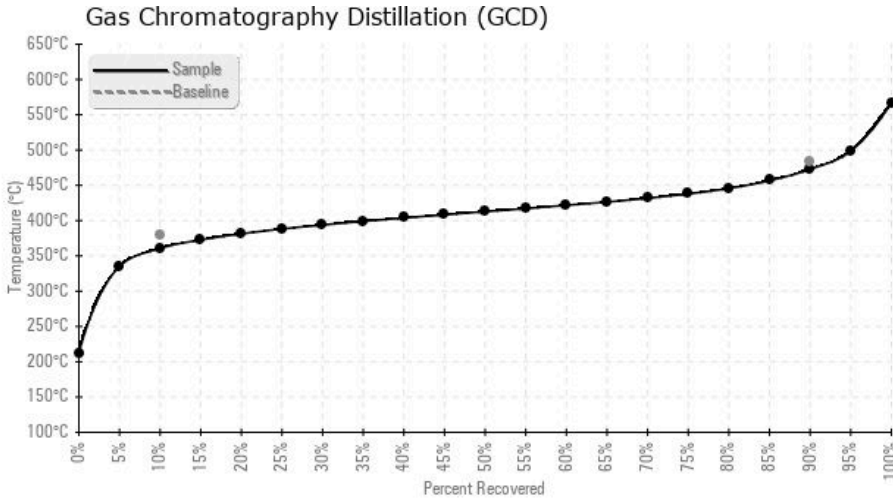
Sample Date	Received Date	Fluid Age	Sample Location	Flash Point (COC)	Water (KF)	Viscosity (40°C)	Acid Number	Solids	GCD 10%	GCD 50%	GCD 90%	GCD % < 335°C
	mm/dd/yy			°F/°C	ppm	cSt	mg/KOH/g	%wt	°F/°C	°F/°C	°F/°C	%
06/14/18	06/21/18	0h		363 / 184	11.0	25.6	0.053	0.060	681 / 361	775 / 413	883 / 473	4.44
04/05/16	04/11/16	0h		343 / 173	116.2	24.0	0.066	0.044	701 / 372	791 / 422	862 / 461	3.20
06/16/15	06/22/15	0h		387 / 197	0.00	25.1	0.12	0.079	707 / 375	800 / 426	873 / 467	2.62
01/16/14	01/27/14	0h		401 / 205	11.1	24.2	0.040	0.034	702 / 372	792 / 422	862 / 461	3.23
03/26/13	04/15/13	0h		433 / 223	18.2	24.1	0.01	0.010	715 / 380	796 / 425	865 / 463	0.86
01/26/12	02/13/12		NA	390 / 199	34	24.1	0.01	0.002	708 / 376	789 / 421	860 / 460	2.873
Baseline Data				428 / 220		35.2	0.05		714 / 379		903 / 484	2.60





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
06/14/18	33	0	0	0	8	1	0	1	0	0	0	0	0	0	0	0	0	0	0	0	1	0	17	2
04/05/16	14	0	0	0	3	0	0	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0	4
06/16/15	10	0	0	0	2	0	0	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0	4
01/16/14	6	0	0	0	1	0	0	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0	1
03/26/13	2	0	0	0	1	0	0	0	0	0	0	2	0	0	0	0	0	0	0	0	0	0	0	0
01/26/12	0	0	0	0	0	0	0	0	0	0	5	0	0	0	0	0	0	0	3	0	0	1	0	0
<b>Baseline Data</b>			0	0						0		0	0						0				0	

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



Historical Comments	
04/05/16	Not recognized as a Petro-Canada product. (GCD) 90% Distillation Point is severely low. COC Flash Point is abnormally low.
06/16/15	Does not appear to be a Petro-Canada product (GCD) 90% Distillation Point is abnormally low.
01/16/14	Oil appears fit for further service, sample at next scheduled maintenance interval
03/26/13	Oil is fit for futher service
01/26/12	Report states THERMIA B

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