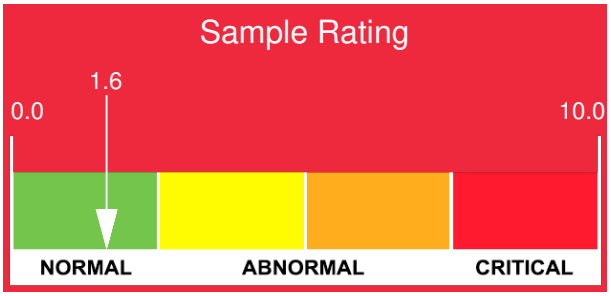
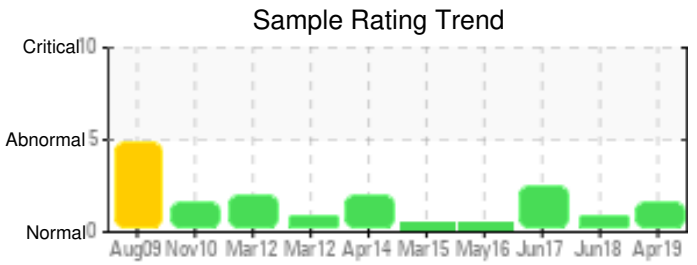
PETRO-CANADA LUBRICANTS





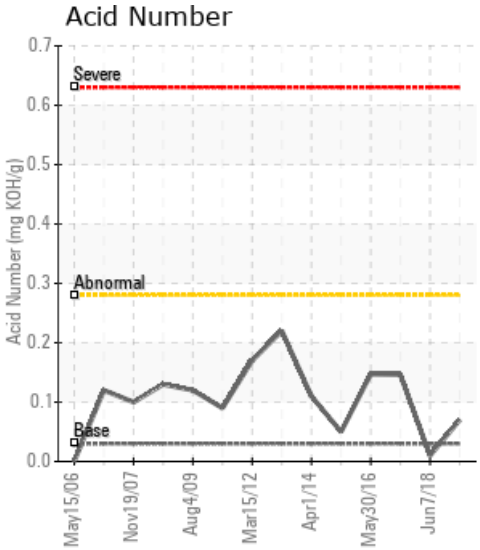
WANSON 5000 BH

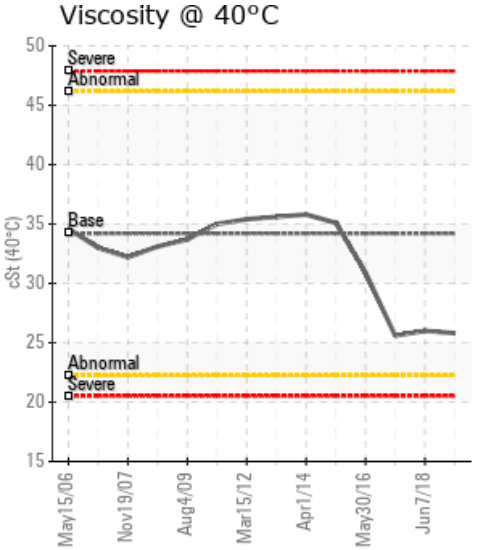
Customer: PTRHTF40051	System Information	Sample Information
Onion Specialties International B.V... Nisseweg 8 Kruiningen, 4416PK Netherlands Attn: WILBERT SNIJERS Tel: E-Mail: w.snijers@klt.nl	System Volume: 7000 ltr Bulk Operating Temp: 290F / 143C Heating Source: Blanket: Fluid: PETRO CANADA PETRO-THERM Make: WANSON	Lab No: 02281304 Analyst: Philip Riley Sample Date: 04/16/19 Received Date: 04/24/19 Completed: 04/29/19

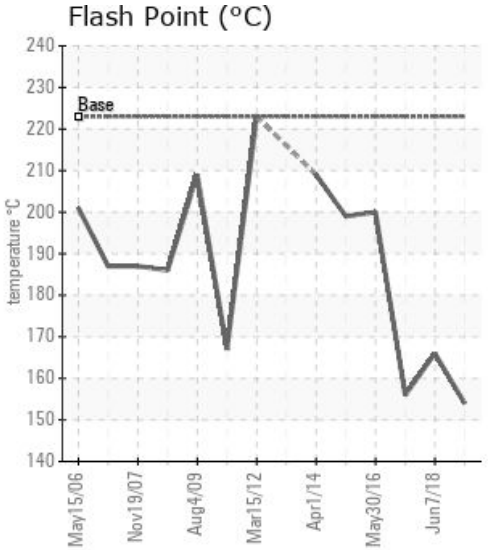
Recommendation: Looks to have less light end molecules than last sample, yet flash point still drops. Try to (further) vent the system if safe and check if can recover flash point. A;; other parameters seem within limits. If flash point cannot be recovered recommend a change out including a flush and clean

Comments: COC Flash Point is severely 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	%
04/16/19	04/24/19	0y		309 / 154	24.3	25.8	0.07	0.108	684 / 362	796 / 425	907 / 486	4.87
06/07/18	06/11/18	4y		331 / 166	26.2	26.0	0.01	0.209	679 / 359	801 / 427	914 / 490	5.92
06/16/17	06/26/17	3y		313 / 156	26.2	25.6	0.146	0.075	667 / 353	793 / 423	931 / 499	6.79
05/30/16	06/03/16	2y	PTRHTF40051	392 / 200	24.0	30.9	0.147	0.098	701 / 372	802 / 428	916 / 491	1.44
03/13/15	03/19/15	1y		390 / 199	9.5	35.1	0.05	0.349	689 / 365	794 / 423	910 / 488	3.03
04/01/14	04/07/14	3y		408 / 209	76.4	35.8	0.11	0.037	694 / 368	810 / 432	947 / 509	3.80
Baseline Data				433 / 223		34.2	0.03		720 / 382	817 / 436	900 / 482	1.00







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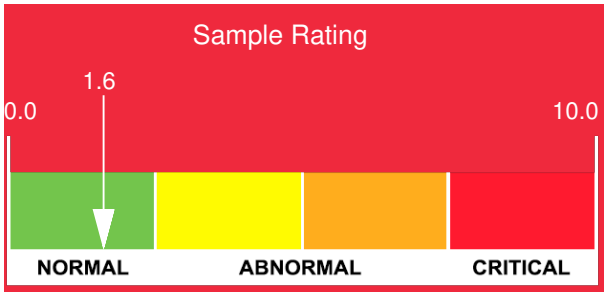
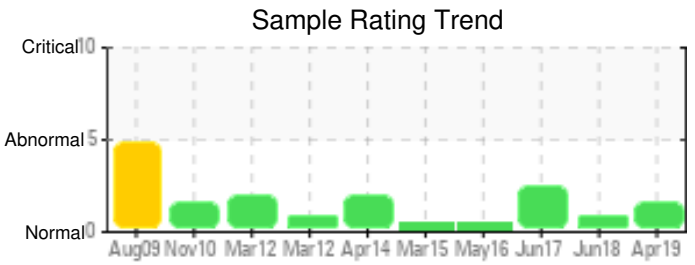
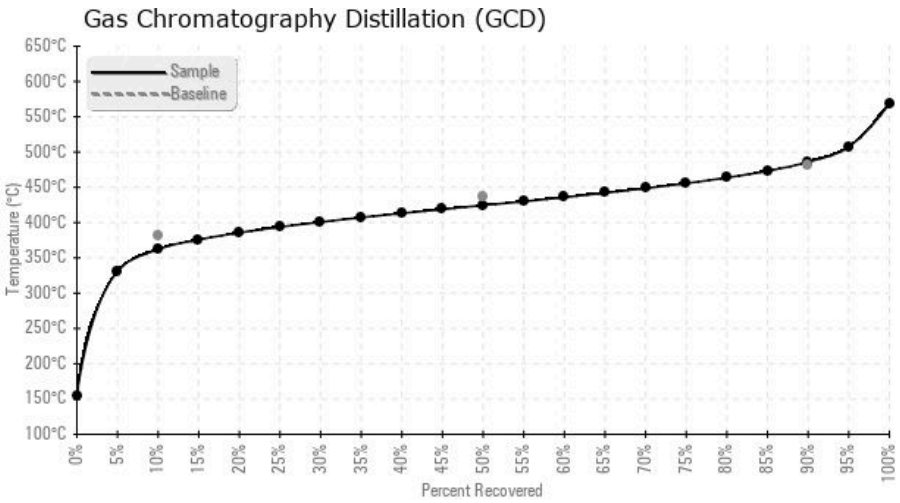
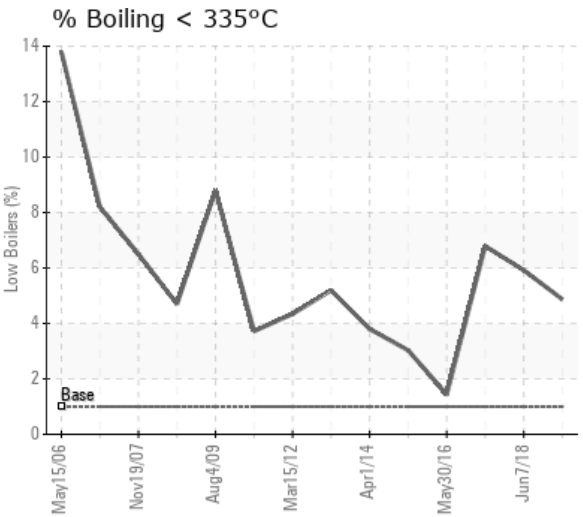




Sample Date	Iron	Chromium	Nickel	Aluminum	Copper	Lead	Tin	Cadmium	Silver	Vanadium	Silicon	Sodium	Potassium	Titanium	Molybdenum	Antimony	Manganese	Lithium	Boron	Magnesium	Calcium	Barium	Phosphorus	Zinc
04/16/19	10	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	6	0
06/07/18	24	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	7	0
06/16/17	3	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	8	0
05/30/16	3	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	10	0
03/13/15	4	0	0	0	0	0	0	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0	0
04/01/14	2	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	0
Baseline Data			0	0						0			0	0					0				0	

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





Historical Comments

06/07/18	COC Flash Point low but not critical at this stage. Evidence of light molecules in the GCD, increasing from last sample. If it can be done safely try to vent off the system and lose some of the light ends and raise the flash pt. Also evidence of some cracking as the viscosity has reduced from original. Sample following vent and see if fluid recovered sufficiantly COC Flash Point is abnormally low.
06/16/17	Product contains low boilers and has lost viscosity. Suggest a change of oil at the next maintenance interval. COC Flash Point is severely low. (GCD) 90% Distillation Point is abnormally high.
05/30/16	The oil appears to be in good condition and fit for further service. Suggest sample at next scheduled maintenance interval.
03/13/15	Oil appears to be in good condition and fit for further service.Sample at next scheduled maintenance interval.
04/01/14	Oil appears to be in good condition.Sample at next scheduled maintenance interval. (GCD) 90% Distillation Point is severely high.