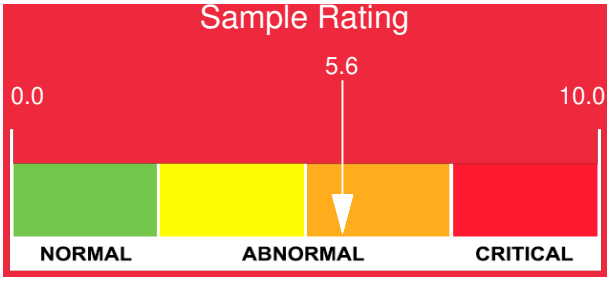
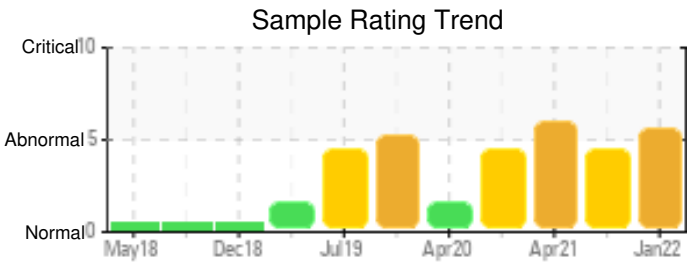




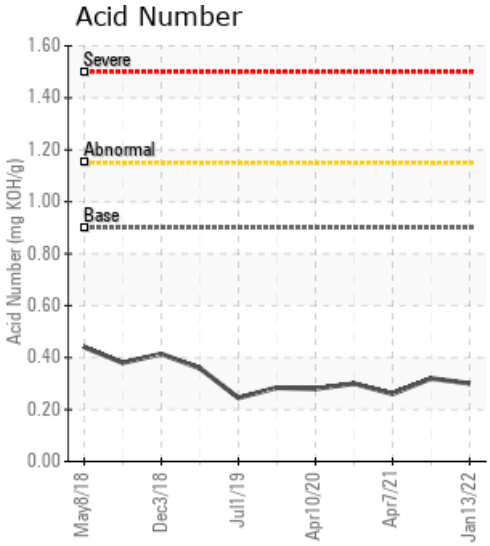
WANSON BH/INC 1200

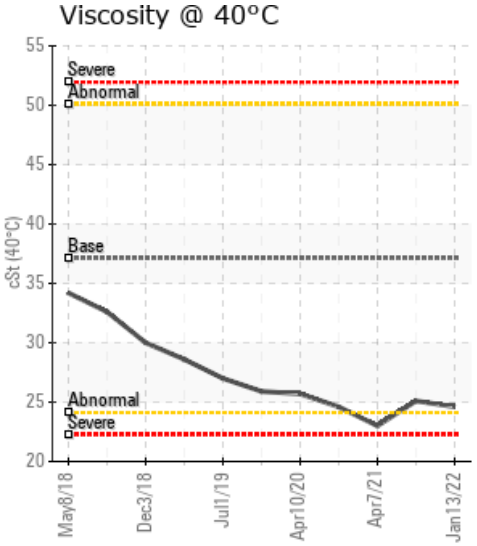
Customer: PTRHTF40127	System Information	Sample Information
Dalco Foods B.V Everdenberg 50 Oosterhout, 4902TT Netherlands Attn: Wilbert Snijers Tel: E-Mail: w.snijers@klt.nl	System Volume: 4200 gal Bulk Operating Temp: 518F / 270C Heating Source: Blanket: Fluid: PETRO CANADA PURITY FG HEAT TRANSFER FLUID Make: WANSON	Lab No: 02467252 Analyst: Bill Quesnel CLS,OMA II,MLA-III,LLA-I Sample Date: 01/13/22 Received Date: 01/20/22 Completed: 01/26/22 Bill Quesnel CLS,OMA II,MLA-III,LLA-I

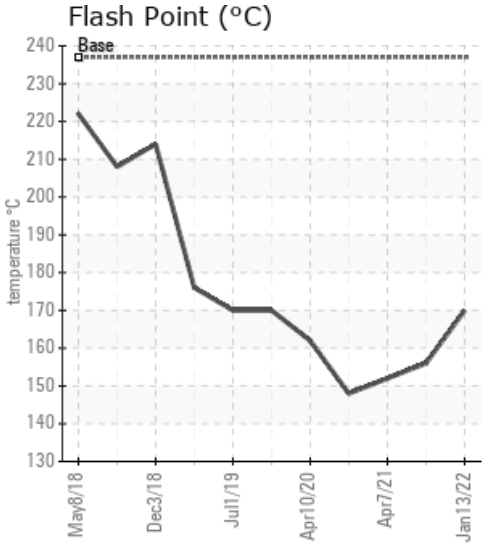
Recommendation: Flash Point (COC) is very low and off specification. Recommend venting the system in order to reduce number of low boilers and recover flash point. Recommend resampling in six months to monitor.

Comments: COC Flash Point is severely low. (GCD) 10% Distillation Point is abnormally low. (GCD) % < 335°C is marginally high.

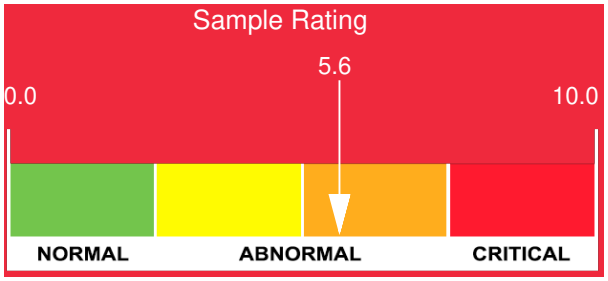
Sample Date	Received Date	Fluid Age	Sample Location	Flash Point (COC)	Water (KF)	Viscosity (40°C)	Acid Number	Solids	GCD 10%	GCD 50%	GCD 90%	GCD % < 335°C
	mm/dd/yy			°F/°C	ppm	cSt	mg/KOH/g	%wt	°F/°C	°F/°C	°F/°C	%
01/13/22	01/20/22	3.8y		338 / 170	20.2	24.6	0.30	0.145	611 / 322	792 / 422	897 / 480	10.93
07/30/21	08/04/21	3.3y		313 / 156	26.1	25.1	0.32	0.136	647 / 341	797 / 425	896 / 480	8.86
04/07/21	04/13/21	3.0y		306 / 152	22.8	23.0	0.26	0.128	592 / 311	788 / 420	908 / 486	11.83
11/02/20	11/09/20	2.5y		298 / 148	9.6	24.6	0.30	0.136	649 / 343	798 / 425	899 / 482	8.68
04/10/20	04/17/20	1.9y		324 / 162	19.3	25.7	0.28	0.065	677 / 358	800 / 427	898 / 481	6.44
Baseline Data				459 / 237		37.12	0.90		721 / 383	807 / 431	892 / 478	1.5

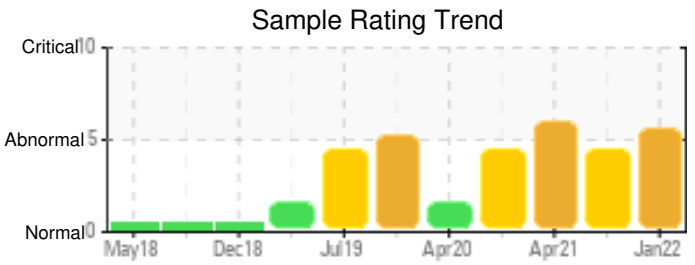






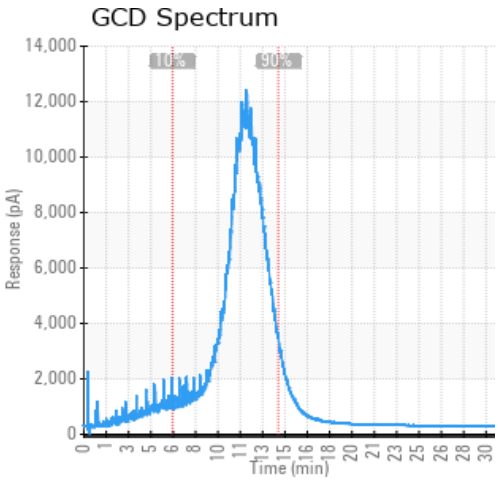
PETRO-CANADA LUBRICANTS

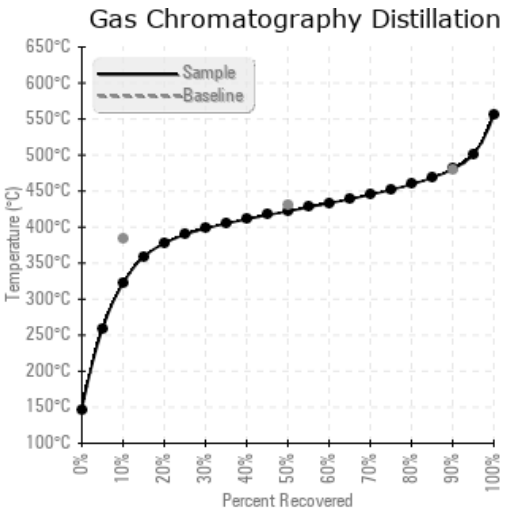


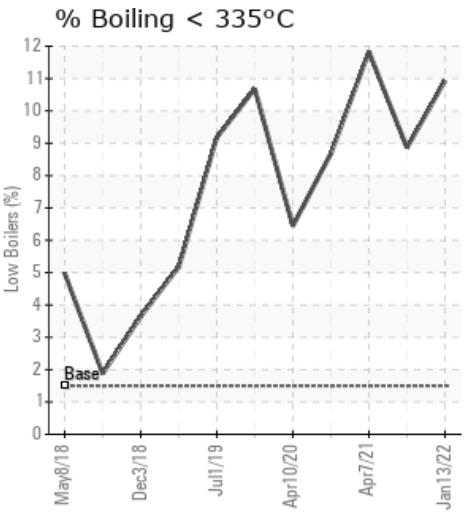


Sample Date	Iron	Chromium	Nickel	Aluminum	Copper	Lead	Tin	Cadmium	Silver	Vanadium	Silicon	Sodium	Potassium	Titanium	Molybdenum	Antimony	Manganese	Lithium	Boron	Magnesium	Calcium	Barium	Phosphorus	Zinc
01/13/22	36	0	0	0	1	0	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0	45	1
07/30/21	16	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	34	0
04/07/21	12	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	22	0
11/02/20	19	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	32	0
04/10/20	4	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	25	0
Baseline Data			0	0						0			0	0				0	0				230	

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







Historical Comments

07/30/21	Flash Point (COC) is very low and off specification. Recommend venting the system in order to reduce number of low boilers and recover flash point. COC Flash Point is severely low. (GCD) 10% Distillation Point is abnormally low. (GCD) % < 335°C is marginally high.
04/07/21	Flash Point continues to be very low. Viscosity has decreased and evidence of cracking of the oil. Viscosity reduction is consistent and the value is distant from what we expect to see, it supports the theory of lower viscosity molecules being produced. Please try safe venting and check for recovery. Several warnings now on flash point and if recovery attempts have failed, recommend to look towards change. (GCD) 10% Distillation Point is severely low. COC Flash Point is severely low. (GCD) % < 335°C is abnormally high. Visc @ 40°C is abnormally low.
11/02/20	Flash Point (COC) is very low and off specification. Recommend venting the system in order to reduce number of low boilers and recover flash point. COC Flash Point is severely low. (GCD) % < 335°C is marginally high. (GCD) 10% Distillation Point is marginally low.
04/10/20	Whilst sample rating looks to have recovered, other parameters, namely Flash Point and viscosity continue to decline. Viscosity has decreased and evidence of cracking of the oil (shape of curve), also reducing flash point. Please try safe venting and check for recovery. Otherwise, operating at 270C is well above the current flash point which has reduced down to 162C. Several warnings now on flash point and if recovery attempts have failed, recommend to look towards change. Viscosity reduction is consistent and the value is distant from what we expect to see, it supports the theory of lower viscosity molecules being produced. COC Flash Point is severely low.