

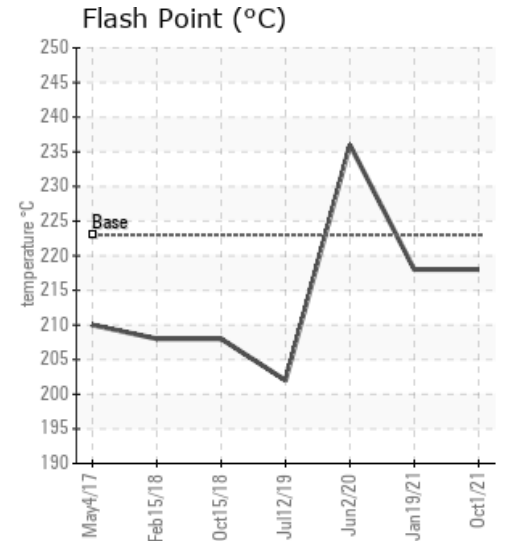
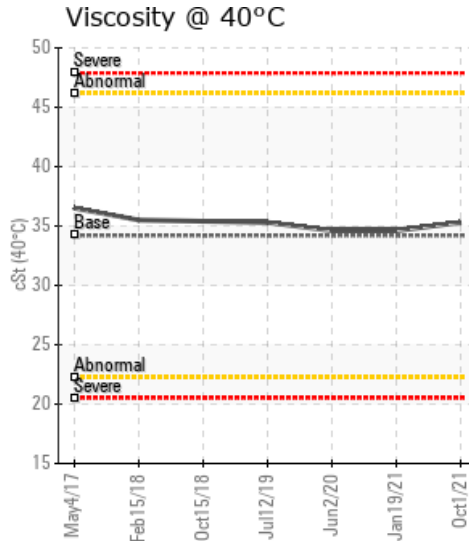
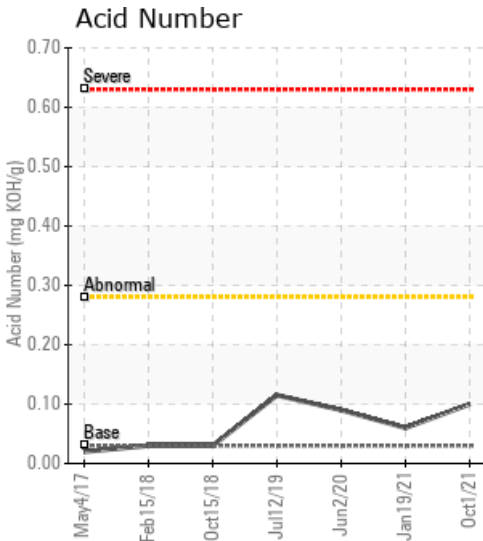
VAPOR POWER

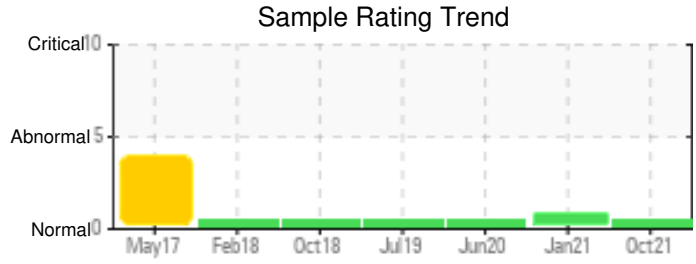
Customer: PTRHTF30020	System Information	Sample Information
IKO INDUSTRIES HAWKESBURY 1451 SPENCE ROAD HI-PARTS-HAWK YARD HAWKESBURY, ON K6A 3T4 Canada Attn: Adam Aubry Tel: E-Mail: adam.aubry@iko.com	System Volume: 600 gal Bulk Operating Temp: 500F / 260C Heating Source: Blanket: Fluid: PETRO CANADA PETRO-THERM Make: VAPOR POWER	Lab No: 02451165 Analyst: Behshad Sabah Sample Date: 10/01/21 Received Date: 10/20/21 Completed: 10/26/21 Behshad Sabah behshad.sabah@hollyfrontier.com

Recommendation: The oil condition is good, very small indication of oil brake-down which is minimal. please keep monitoring the oil

Comments:

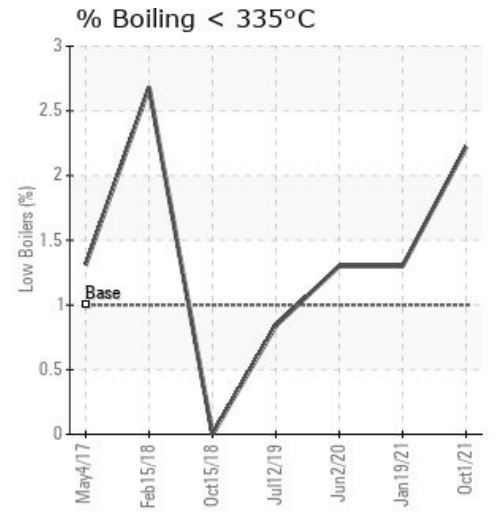
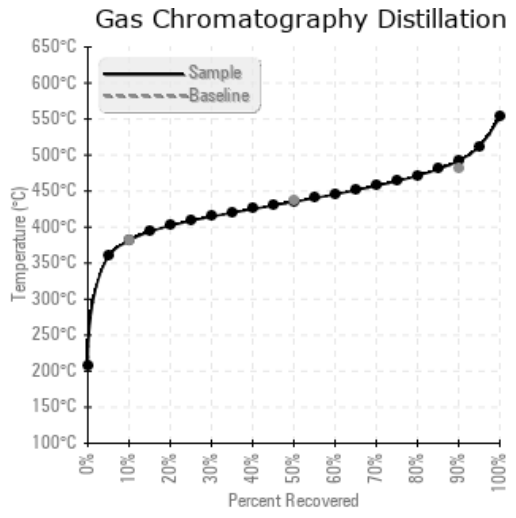
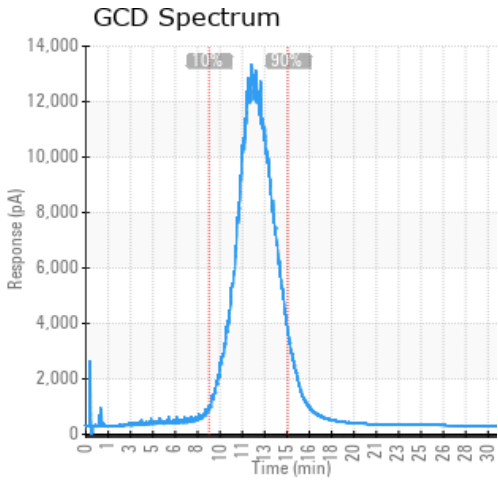
Sample Date	Received Date	Fluid Age	Sample Location	Flash Point (COC)	Water (KF)	Viscosity (40°C)	Acid Number	Solids	GCD 10%	GCD 50%	GCD 90%	GCD % < 335°C
	mm/dd/yy			°F/°C	ppm	cSt	mg/KOH/g	%wt	°F/°C	°F/°C	°F/°C	%
10/01/21	10/20/21	1.0y		424 / 218	17.0	35.3	0.10	0.045	718 / 381	815 / 435	918 / 492	2.22
01/19/21	01/22/21	3.0y		424 / 218	8.8	34.6	0.06	0.145	723 / 384	816 / 436	918 / 492	1.30
06/02/20	06/11/20	3.0y	HOT OIL BOILER	457 / 236	12.3	34.6	0.09	0.119	723 / 384	816 / 436	915 / 491	1.30
07/12/19	07/18/19	1.0y		396 / 202	23.2	35.3	0.115	0.164	707 / 375	804 / 429	915 / 491	0.84
10/15/18	10/18/18	3.0y		406 / 208	16.2	35.4	0.03	0.040	726 / 385	805 / 429	909 / 487	0.00
Baseline Data				433 / 223		34.2	0.03		720 / 382	817 / 436	900 / 482	1.00





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
10/01/21	3	0	0	0	0	0	0	0	0	0	2	0	0	0	0	0	0	0	0	0	20	0	0	0
01/19/21	11	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	4	0	0	0
06/02/20	8	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	6	0	0	0
07/12/19	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	13	0	0	0
10/15/18	6	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	4	0	0	0
Baseline Data			0	0						0			0	0					0				0	

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



Historical Comments	
01/19/21	The High Boilers (GCD @90%) are marginally high. These could deposit in elbows and small lines. The Heat transfer oil is OK, for continuous use. (GCD) 90% Distillation Point is marginally high.
06/02/20	Ok for continuous use
07/12/19	You have some carbon buildup (GCD @90%) is high.
10/15/18	Le fluide caloporteur est normal

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