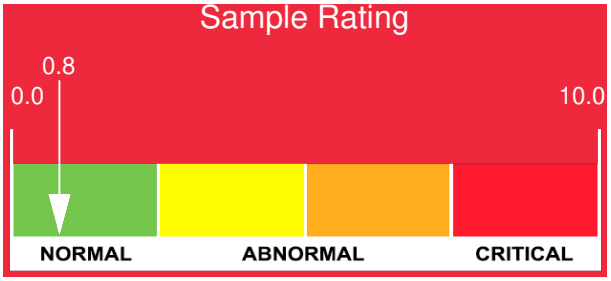
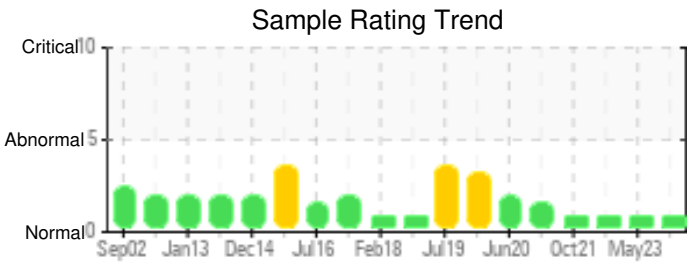
PETRO-CANADA LUBRICANTS





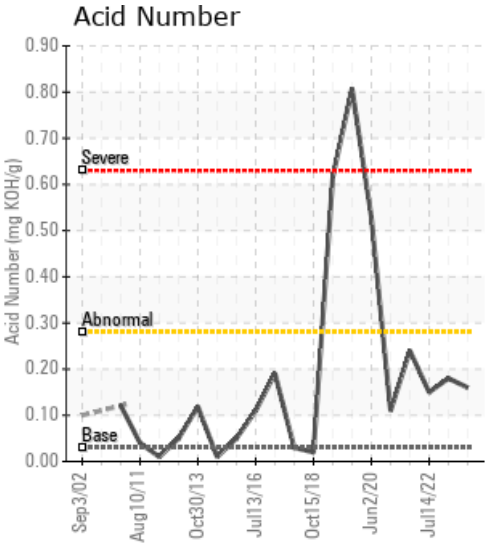
API BOILER

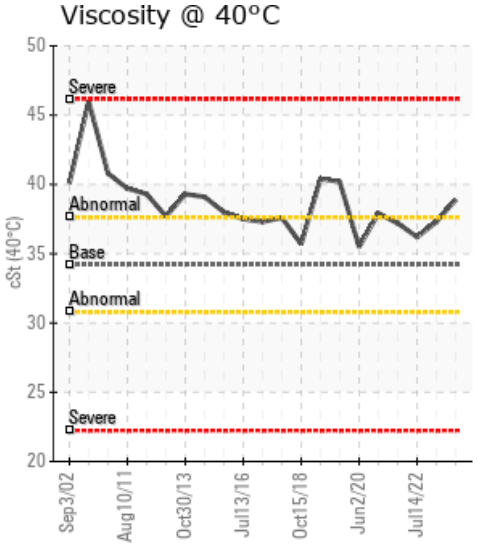
Customer: PTRHTF30020	System Information	Sample Information
IKO INDUSTRIES HAWKESBURY 1451 SPENCE ROAD HI-PARTS-HAWK YARD HAWKESBURY, ON K6A 3T4 CA Attn: Adam Aubry Tel: E-Mail: adam.aubry@iko.com	System Volume: 25000 ltr Bulk Operating Temp: 518F / 270C Heating Source: Blanket: Fluid: PETRO CANADA PETRO-THERM Make: INDUSTRIAL	Lab No: 02617274 Analyst: Behshad Sabah Sample Date: 02/12/24 Received Date: 02/21/24 Completed: 02/26/24 Behshad Sabah behshad.sabah@HFSinclair.com

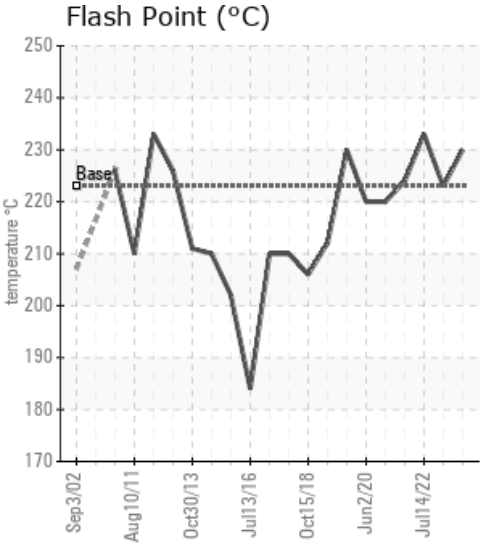
Recommendation: oil in good condition. no actions to take. take another sample next year.

Comments: (GCD) 90% Distillation Point is abnormally 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	%
02/12/24	02/21/24	14.0y		446 / 230	49	38.9	0.16	0.151	719 / 382	819 / 437	930 / 499	1.77
05/01/23	05/02/23	13.0y		433 / 223	5.1	37.3	0.18	0.111	719 / 382	819 / 437	922 / 495	1.58
07/14/22	07/21/22	12.0y		451 / 233	23.1	36.2	0.15	0.262	722 / 383	819 / 437	925 / 496	1.55
10/01/21	10/20/21	11.0y		435 / 224	277.9	37.2	0.24	0.137	722 / 383	821 / 439	928 / 498	1.91
01/19/21	01/22/21	11.0y		428 / 220	5.3	37.9	0.11	0.454	724 / 384	822 / 439	930 / 499	1.26
Baseline Data				433 / 223		34.2	0.03		720 / 382	817 / 436	900 / 482	1.00







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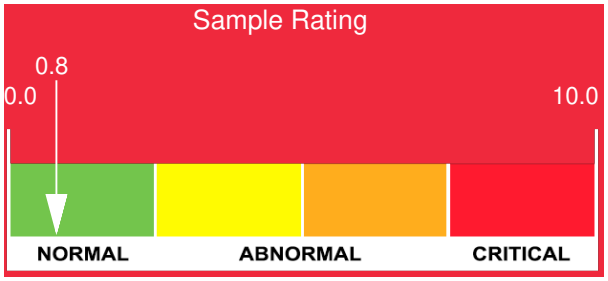
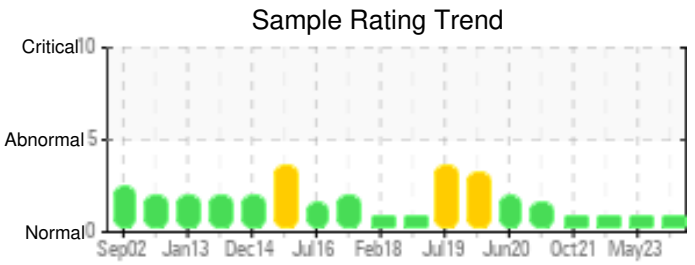
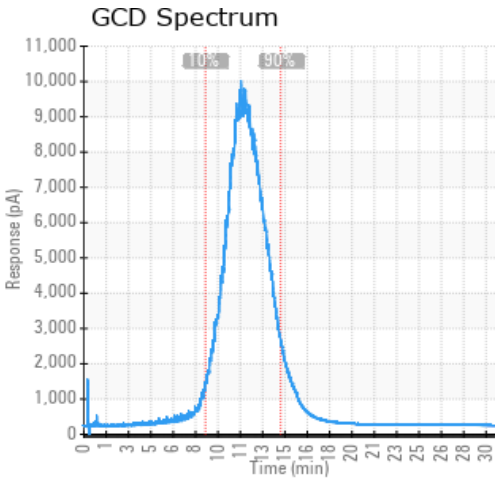
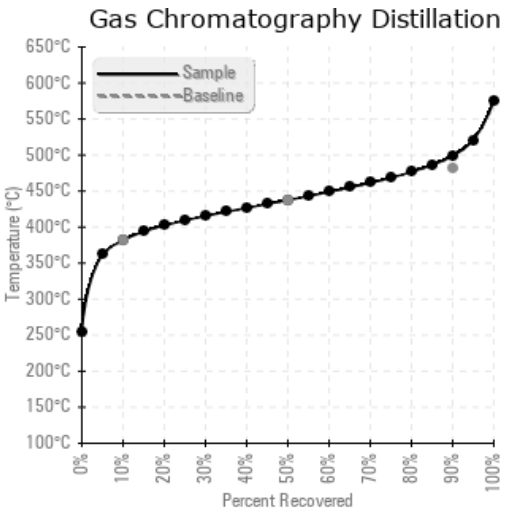


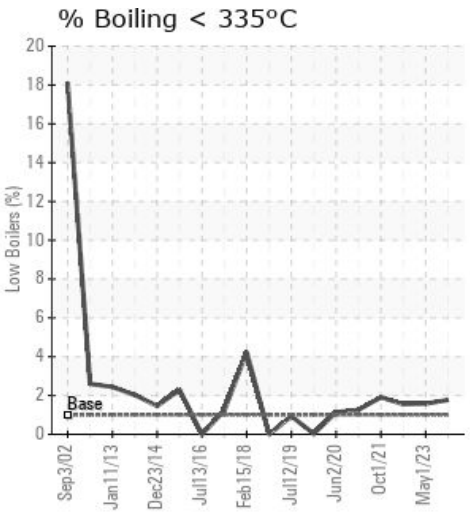


Sample Date	Iron	Chromium	Nickel	Aluminum	Copper	Lead	Tin	Cadmium	Silver	Vanadium	Silicon	Sodium	Potassium	Titanium	Molybdenum	Antimony	Manganese	Lithium	Boron	Magnesium	Calcium	Barium	Phosphorus	Zinc
02/12/24	3	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	2	0	0	0
05/01/23	4	0	0	0	0	0	0	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0	0
07/14/22	4	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
10/01/21	6	0	0	0	0	0	0	0	0	0	1	2	0	0	0	0	0	0	1	0	1	0	0	0
01/19/21	4	0	0	0	0	4	0	0	0	0	0	2	0	0	0	0	0	0	0	0	1	0	0	6
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

05/01/23	No presence of wear. Contamination are not present in sample. The viscosity and AN (acid number) are correct. COC flash point is on normal. GCD 10% is normal. GCD 90% is to report with severity 2 (yellow flag). Pentanes insolubles are correct. Graphic GCD is correct.The oil condition is good, very small indication of high boiler which is minimal. Please keep monitoring the oil. (GCD) 90% Distillation Point is marginally high.
07/14/22	No wear, no contamination are present in sample. Viscosity and AN (acid number) are correct. COC flash point is good. GCD 10% is good and GCD 90% is to report with severity 2 (yellow flag). Pentanes insolubles are good. The oil condition is good, very small indication of high boiler which is minimal. Please keep monitoring the oil.small change in the AN and viscosity. viscosity increase will reduce the heat transfer coefficient by 3%. in general oil is in good and acceptable condition. (GCD) 90% Distillation Point is marginally high.
10/01/21	Elemental Analysis is OK, FE = 6 ppm, max = 99.Water is ok, 278 ppm, max = 350 ppm. The Acid Number is ok at 0.24 and maximum is 0.29. The Viscosity @ 40C is ok. A result to 37.2 cSt and a fresh oil is 35.8 cSt. increase by 3.9%. The COC flash point is ok. A result to 224 C and a fresh oil is 225 C. The insolubles or solids (%W) is good. A result to 0.137 and the maximum is 0.29.GCD % 10% is ok and GCD 90% is a severity yellow, we will check for the next analysis, to do in one year. The graphic GCD is a good shape and we have not a large volume of low boiler and high boiler. Continue operation (GCD) 90% Distillation Point is abnormally high.
01/19/21	Solids (Pentane Insolubles) are high. High boilers (GCD @90%) are high. GCD <335C have increase. We could see some deposits in elbow, small lines etc.The heat trasfer fluid is OK, for continuous use. Pentane Insolubles levels are abnormally high. (GCD) 90% Distillation Point is abnormally high.