



OIL ANALYSIS REPORT

Sample Rating Trend



WATER

Machine Id

N/A Franklin Precision Industry

Component

Center Fluid

Fluid

PETRO CANADA HYDREX AW 46 (10 LTR)

DIAGNOSIS

Recommendation

We advise that you check for the source of water entry. We recommend you service the filters on this component. Resample at the next service interval to monitor. (Customer Sample Comment: Could have some type of metal working fluid mixed?)

Wear

All component wear rates are normal.

Contamination

Appearance is hazy. There is a light concentration of water present in the fluid. The amount and size of particulates present in the system are acceptable.

Fluid Condition

The AN level is acceptable for this fluid.

SAMPLE INFORMATION

method	limit/base	current	history1	history2
Sample Number	Client Info	KFS0005074	---	---
Sample Date	Client Info	24 Apr 2024	---	---
Machine Age	hrs Client Info	0	---	---
Oil Age	hrs Client Info	0	---	---
Oil Changed	Client Info	N/A	---	---
Sample Status		ABNORMAL	---	---

WEAR METALS

method	limit/base	current	history1	history2
Iron	ppm ASTM D5185m	0	---	---
Chromium	ppm ASTM D5185m	0	---	---
Nickel	ppm ASTM D5185m	0	---	---
Titanium	ppm ASTM D5185m	0	---	---
Silver	ppm ASTM D5185m	0	---	---
Aluminum	ppm ASTM D5185m	0	---	---
Lead	ppm ASTM D5185m	0	---	---
Copper	ppm ASTM D5185m	2	---	---
Tin	ppm ASTM D5185m	0	---	---
Vanadium	ppm ASTM D5185m	0	---	---
Cadmium	ppm ASTM D5185m	0	---	---

ADDITIVES

method	limit/base	current	history1	history2
Boron	ppm ASTM D5185m	0	---	---
Barium	ppm ASTM D5185m	0	---	---
Molybdenum	ppm ASTM D5185m	0	---	---
Manganese	ppm ASTM D5185m	0	---	---
Magnesium	ppm ASTM D5185m	0	---	---
Calcium	ppm ASTM D5185m	25	---	---
Phosphorus	ppm ASTM D5185m	293	---	---
Zinc	ppm ASTM D5185m	416	---	---
Sulfur	ppm ASTM D5185m	944	---	---

CONTAMINANTS

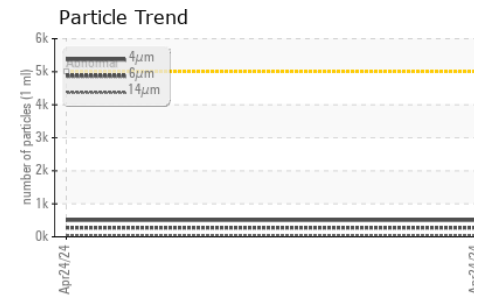
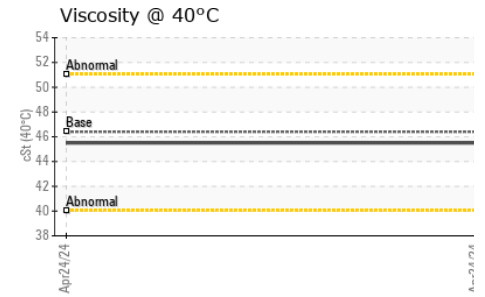
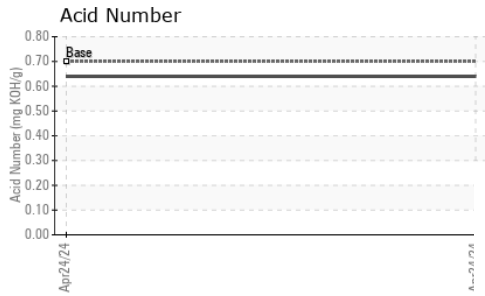
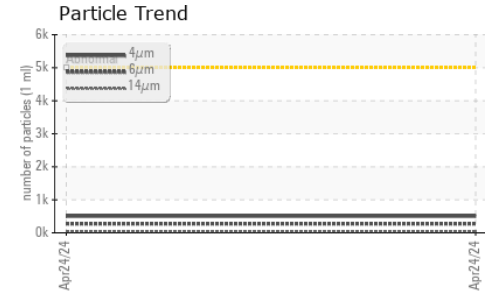
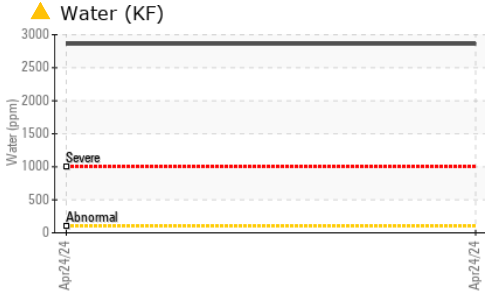
method	limit/base	current	history1	history2
Silicon	ppm ASTM D5185m	0	---	---
Sodium	ppm ASTM D5185m	<1	---	---
Potassium	ppm ASTM D5185m	0	---	---
Water	% ASTM D6304	▲ 0.286	---	---
ppm Water	ppm ASTM D6304	▲ 2860	---	---

FLUID CLEANLINESS

method	limit/base	current	history1	history2
Particles >4µm	ASTM D7647	505	---	---
Particles >6µm	ASTM D7647	275	---	---
Particles >14µm	ASTM D7647	47	---	---
Particles >21µm	ASTM D7647	16	---	---
Particles >38µm	ASTM D7647	2	---	---
Particles >71µm	ASTM D7647	0	---	---
Oil Cleanliness	ISO 4406 (c)	16/15/13	---	---

FLUID DEGRADATION

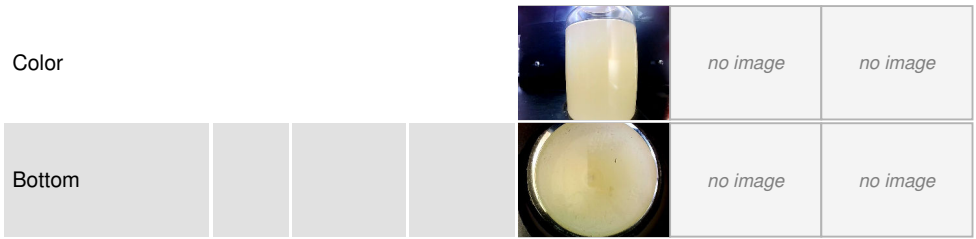
method	limit/base	current	history1	history2
Acid Number (AN)	mg KOH/g ASTM D8045	0.64	---	---



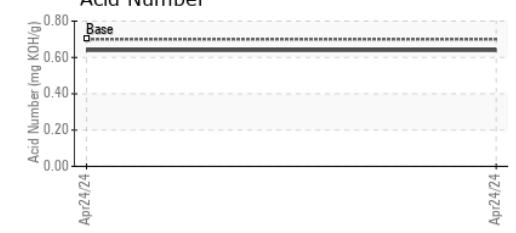
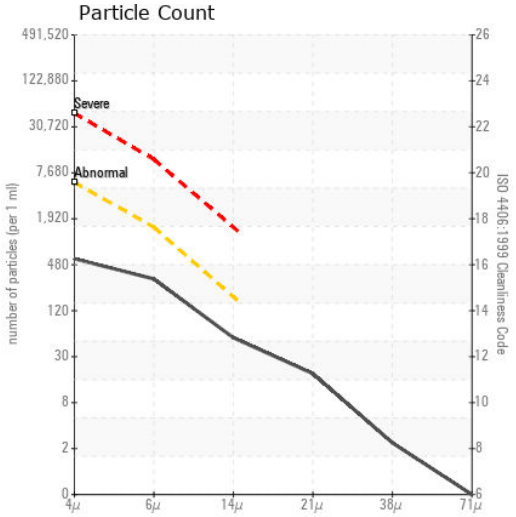
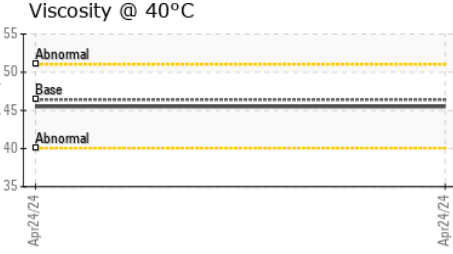
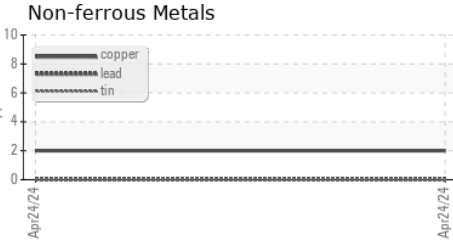
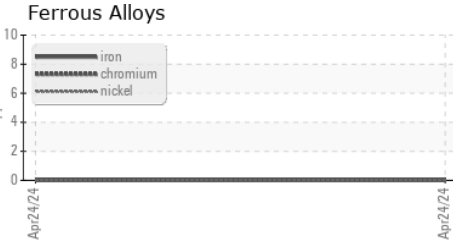
VISUAL	method	limit/base	current	history1	history2
White Metal	scalar	*Visual	NONE	NONE	---
Yellow Metal	scalar	*Visual	NONE	NONE	---
Precipitate	scalar	*Visual	NONE	NONE	---
Silt	scalar	*Visual	NONE	NONE	---
Debris	scalar	*Visual	NONE	NONE	---
Sand/Dirt	scalar	*Visual	NONE	NONE	---
Appearance	scalar	*Visual	NORML	HAZY	---
Odor	scalar	*Visual	NORML	NORML	---
Emulsified Water	scalar	*Visual	0.2%	---	---
Free Water	scalar	*Visual	NEG	---	---

FLUID PROPERTIES	method	limit/base	current	history1	history2
Visc @ 40°C	cSt	ASTM D445	46.4	45.5	---

SAMPLE IMAGES	method	limit/base	current	history1	history2
---------------	--------	------------	---------	----------	----------



GRAPHS



Laboratory : WearCheck USA - 501 Madison Ave., Cary, NC 27513
Sample No. : KFS0005074 **Received** : 26 Apr 2024
Lab Number : 06161398 **Tested** : 02 May 2024
Unique Number : 10996821 **Diagnosed** : 02 May 2024 - Jonathan Hester
Test Package : IND 2 (Additional Tests: KF, PrtCount)

KIMBRO OIL COMPANY
 2200 CLIFTON AVE
 NASHVILLE, TN
 US 37203
 Contact: CHRIS HIGGINS
 chiggins@kimbrooil.com
 T: (270)305-1347
 F:

To discuss this sample report, contact Customer Service at 1-800-237-1369.

* - Denotes test methods that are outside of the ISO 17025 scope of accreditation.

Statements of conformity to specifications are based on the simple acceptance decision rule (JCGM 106:2012)