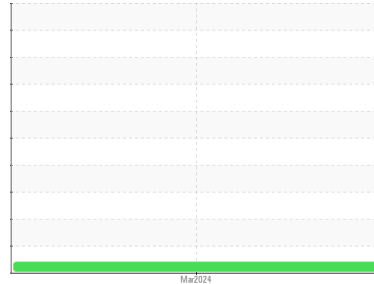




# OIL ANALYSIS REPORT

Sample Rating Trend



VISCOSITY



Machine Id

## UNK- Recycle Tote

Component

Hydraulic System

Fluid

PETRO CANADA HYDREX AW 46 (330 GAL)

### DIAGNOSIS

#### Recommendation

This is a baseline read-out on the submitted sample. ( Customer Sample Comment: Attn Catherine: Please add Pore Blockage PC )

#### Contamination

Laser PC data reported. Pore blockage count are 4um - 548, 6um - 298, 14um - 51, 21um - 17, 38um - 3, and 70um - 0. ISO code is 16/15/13.

#### Fluid Condition

Viscosity of sample indicates oil is within ISO 68 range, advise investigate.

### SAMPLE INFORMATION

	method	limit/base	current	history1	history2
Sample Number	Client Info		<b>KFS0005053</b>	---	---
Sample Date	Client Info		<b>25 Mar 2024</b>	---	---
Machine Age	days	Client Info	<b>0</b>	---	---
Oil Age	days	Client Info	<b>0</b>	---	---
Oil Changed	Client Info		<b>N/A</b>	---	---
Sample Status			<b>ATTENTION</b>	---	---

### CONTAMINATION

	method	limit/base	current	history1	history2
Water	WC Method	>0.05	<b>NEG</b>	---	---

### WEAR METALS

	method	limit/base	current	history1	history2
Iron	ppm	ASTM D5185m >20	<b>3</b>	---	---
Chromium	ppm	ASTM D5185m >20	<b>0</b>	---	---
Nickel	ppm	ASTM D5185m >20	<b>0</b>	---	---
Titanium	ppm	ASTM D5185m	<b>0</b>	---	---
Silver	ppm	ASTM D5185m	<b>0</b>	---	---
Aluminum	ppm	ASTM D5185m >20	<b>0</b>	---	---
Lead	ppm	ASTM D5185m >20	<b>0</b>	---	---
Copper	ppm	ASTM D5185m >20	<b>4</b>	---	---
Tin	ppm	ASTM D5185m >20	<b>0</b>	---	---
Vanadium	ppm	ASTM D5185m	<b>0</b>	---	---
Cadmium	ppm	ASTM D5185m	<b>0</b>	---	---

### ADDITIVES

	method	limit/base	current	history1	history2
Boron	ppm	ASTM D5185m 0	<b>0</b>	---	---
Barium	ppm	ASTM D5185m 0	<b>0</b>	---	---
Molybdenum	ppm	ASTM D5185m 0	<b>0</b>	---	---
Manganese	ppm	ASTM D5185m 0	<b>0</b>	---	---
Magnesium	ppm	ASTM D5185m 0	<b>0</b>	---	---
Calcium	ppm	ASTM D5185m 50	<b>35</b>	---	---
Phosphorus	ppm	ASTM D5185m 330	<b>316</b>	---	---
Zinc	ppm	ASTM D5185m 430	<b>391</b>	---	---
Sulfur	ppm	ASTM D5185m 760	<b>1009</b>	---	---

### CONTAMINANTS

	method	limit/base	current	history1	history2
Silicon	ppm	ASTM D5185m >15	<b>&lt;1</b>	---	---
Sodium	ppm	ASTM D5185m	<b>&lt;1</b>	---	---
Potassium	ppm	ASTM D5185m >20	<b>0</b>	---	---

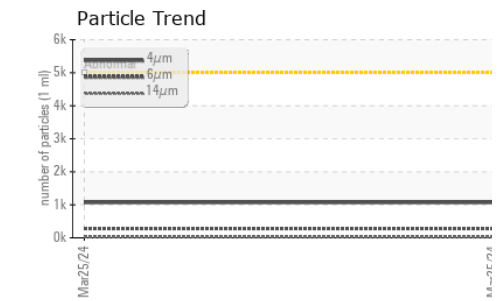
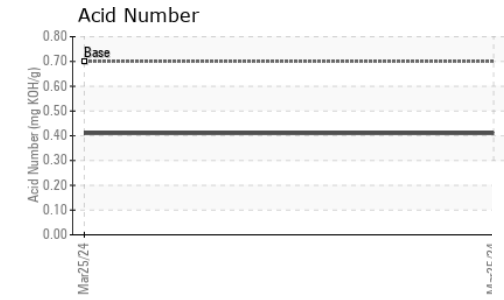
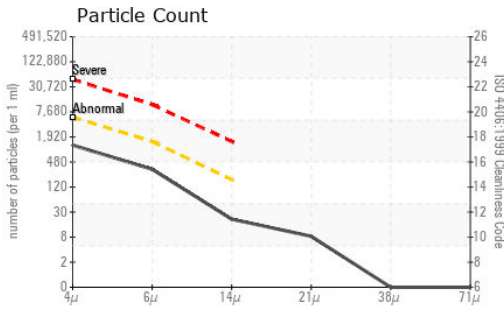
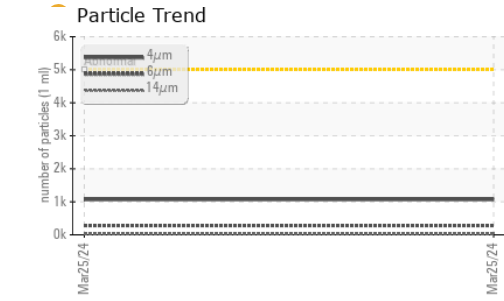
### FLUID CLEANLINESS

	method	limit/base	current	history1	history2
Particles >4µm	ASTM D7647	>5000	<b>1070</b>	---	---
Particles >6µm	ASTM D7647	>1300	<b>281</b>	---	---
Particles >14µm	ASTM D7647	>160	<b>18</b>	---	---
Particles >21µm	ASTM D7647	>40	<b>7</b>	---	---
Particles >38µm	ASTM D7647	>10	<b>0</b>	---	---
Particles >71µm	ASTM D7647	>3	<b>0</b>	---	---
Oil Cleanliness	ISO 4406 (c)	>19/17/14	<b>17/15/11</b>	---	---

### FLUID DEGRADATION

	method	limit/base	current	history1	history2
Acid Number (AN)	mg KOH/g	ASTM D8045 0.70	<b>0.41</b>	---	---

# OIL ANALYSIS REPORT



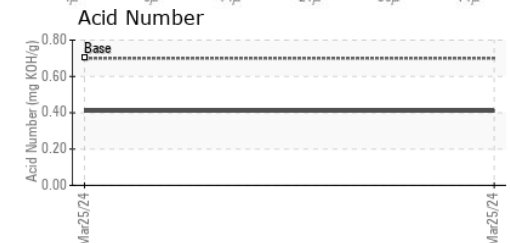
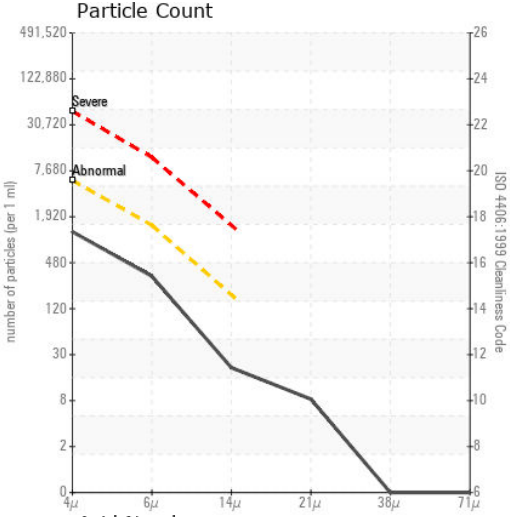
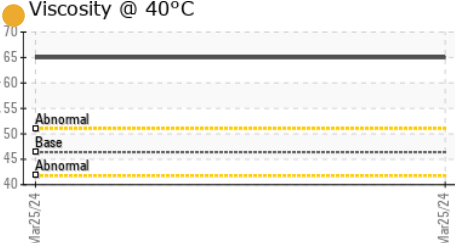
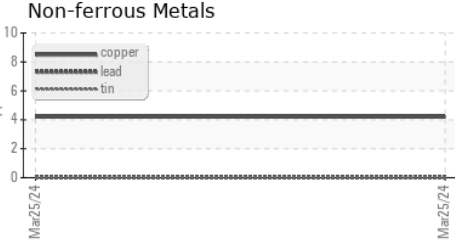
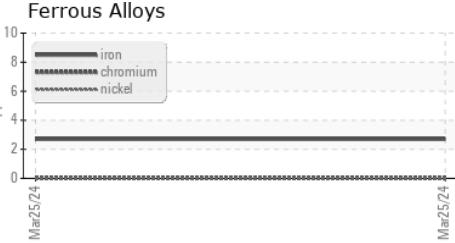
VISUAL	method	limit/base	current	history1	history2	
White Metal	scalar	*Visual	NONE	NONE	---	---
Yellow Metal	scalar	*Visual	NONE	NONE	---	---
Precipitate	scalar	*Visual	NONE	NONE	---	---
Silt	scalar	*Visual	NONE	NONE	---	---
Debris	scalar	*Visual	NONE	NONE	---	---
Sand/Dirt	scalar	*Visual	NONE	NONE	---	---
Appearance	scalar	*Visual	NORML	NORML	---	---
Odor	scalar	*Visual	NORML	NORML	---	---
Emulsified Water	scalar	*Visual	>0.05	NEG	---	---
Free Water	scalar	*Visual		NEG	---	---

FLUID PROPERTIES	method	limit/base	current	history1	history2	
Visc @ 40°C	cSt	ASTM D445	46.4	● 65.0	---	---

SAMPLE IMAGES	method	limit/base	current	history1	history2
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Color		no image	no image
Bottom		no image	no image

## GRAPHS



Certificate L2367

**Laboratory** : WearCheck USA - 501 Madison Ave., Cary, NC 27513  
**Sample No.** : KFS0005053      **Received** : 27 Mar 2024  
**Lab Number** : 06130581      **Tested** : 04 Apr 2024  
**Unique Number** : 10950046      **Diagnosed** : 04 Apr 2024 - Jonathan Hester  
**Test Package** : IND 2

**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)