

OIL ANALYSIS REPORT

Sample Rating Trend



ISO



Area
Recycling Line
 Machine ID
Vecoplan Hydraulic unit
 Component
Hydraulic System
 Fluid
PETRO CANADA HYDREX XV ALL SEASON HYDRAULIC OIL (--- GAL)

DIAGNOSIS

Recommendation

No corrective action is recommended at this time. Resample at the next service interval to monitor.

Wear

All component wear rates are normal.

Contamination

There is a high amount of silt (particulates < 14 microns in size) present in the oil.

Fluid Condition

The AN level is acceptable for this fluid. The condition of the oil is suitable for further service.

SAMPLE INFORMATION

method	limit/base	current	history1	history2
Sample Number	Client Info	PCA0124551	PCA0107753	---
Sample Date	Client Info	13 Jun 2024	08 Apr 2024	---
Machine Age	hrs	Client Info	0	---
Oil Age	hrs	Client Info	0	---
Oil Changed	Client Info	Not Changed	Not Changed	---
Sample Status		ABNORMAL	ABNORMAL	---

WEAR METALS

method	limit/base	current	history1	history2	
Iron	ppm	ASTM D5185m >20	5	2	---
Chromium	ppm	ASTM D5185m >20	<1	0	---
Nickel	ppm	ASTM D5185m >20	<1	0	---
Titanium	ppm	ASTM D5185m	<1	0	---
Silver	ppm	ASTM D5185m	0	0	---
Aluminum	ppm	ASTM D5185m >20	9	8	---
Lead	ppm	ASTM D5185m >20	<1	0	---
Copper	ppm	ASTM D5185m >20	1	0	---
Tin	ppm	ASTM D5185m >20	<1	0	---
Vanadium	ppm	ASTM D5185m	0	0	---
Cadmium	ppm	ASTM D5185m	<1	0	---

ADDITIVES

method	limit/base	current	history1	history2	
Boron	ppm	ASTM D5185m 0	<1	0	---
Barium	ppm	ASTM D5185m 0	0	0	---
Molybdenum	ppm	ASTM D5185m 0	<1	0	---
Manganese	ppm	ASTM D5185m 1	<1	0	---
Magnesium	ppm	ASTM D5185m 0	2	0	---
Calcium	ppm	ASTM D5185m 100	42	56	---
Phosphorus	ppm	ASTM D5185m 670	335	341	---
Zinc	ppm	ASTM D5185m 850	433	405	---
Sulfur	ppm	ASTM D5185m 1600	4209	4521	---

CONTAMINANTS

method	limit/base	current	history1	history2	
Silicon	ppm	ASTM D5185m >15	3	2	---
Sodium	ppm	ASTM D5185m	0	0	---
Potassium	ppm	ASTM D5185m >20	<1	0	---
Water	%	ASTM D6304 >0.05	NEG	NEG	---

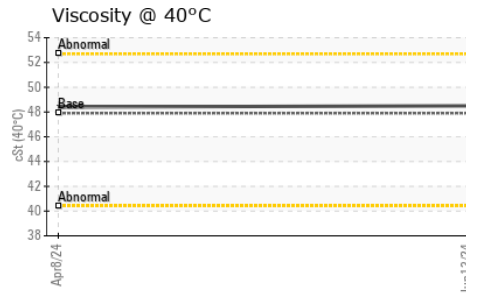
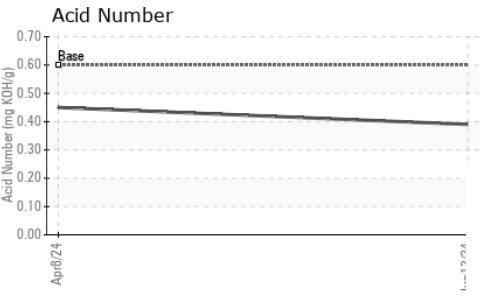
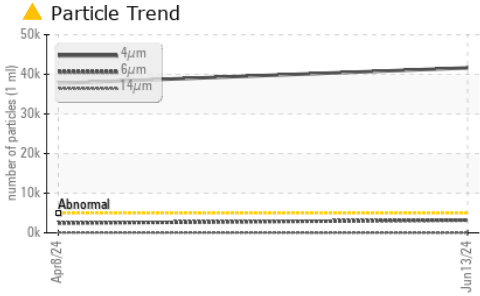
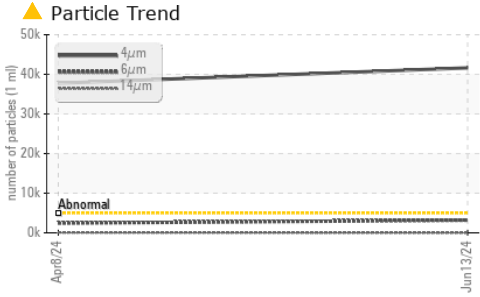
FLUID CLEANLINESS

method	limit/base	current	history1	history2
Particles >4µm	ASTM D7647 >5000	▲ 41629	▲ 37755	---
Particles >6µm	ASTM D7647 >1300	● 3188	● 2435	---
Particles >14µm	ASTM D7647 >160	23	81	---
Particles >21µm	ASTM D7647 >40	3	21	---
Particles >38µm	ASTM D7647 >10	1	1	---
Particles >71µm	ASTM D7647 >3	1	0	---
Oil Cleanliness	ISO 4406 (c) >19/17/14	▲ 23/19/12	▲ 22/18/14	---

FLUID DEGRADATION

method	limit/base	current	history1	history2	
Acid Number (AN)	mg KOH/g	ASTM D8045 0.60	0.39	0.45	---

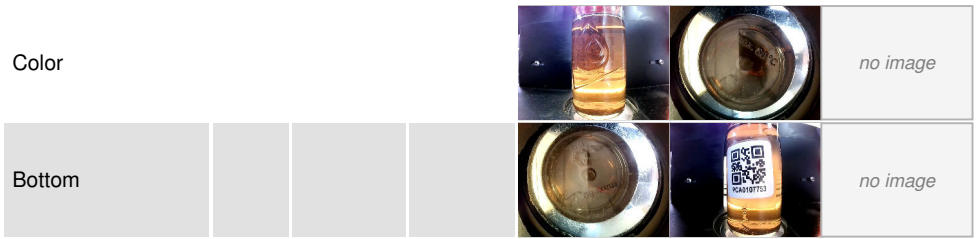
OIL ANALYSIS REPORT



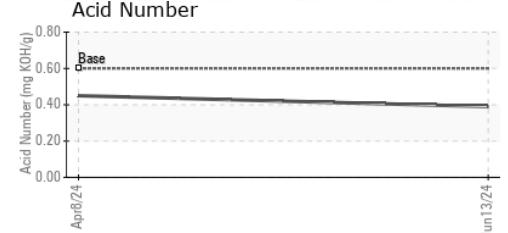
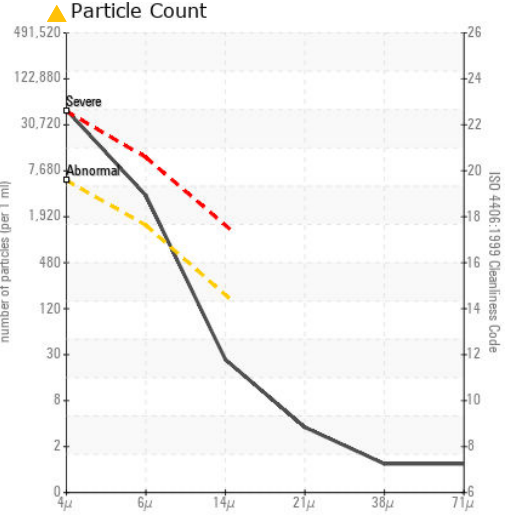
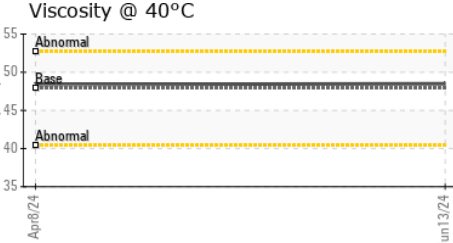
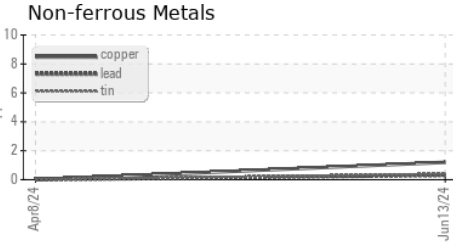
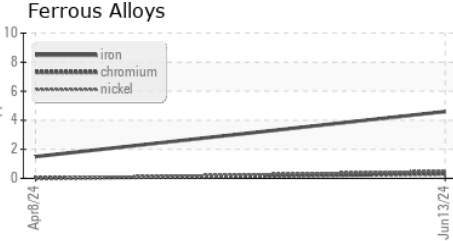
VISUAL	method	limit/base	current	history1	history2
White Metal	scalar	*Visual	NONE	NONE	---
Yellow Metal	scalar	*Visual	NONE	NONE	---
Precipitate	scalar	*Visual	NONE	NONE	---
Silt	scalar	*Visual	NONE	NONE	---
Debris	scalar	*Visual	NONE	NONE	---
Sand/Dirt	scalar	*Visual	NONE	NONE	---
Appearance	scalar	*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	47.9	48.5	48.4

SAMPLE IMAGES	method	limit/base	current	history1	history2
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GRAPHS



Laboratory : WearCheck USA - 501 Madison Ave., Cary, NC 27513
Sample No. : PCA0124551 **Received** : 17 Jun 2024
Lab Number : **06211564** **Tested** : 18 Jun 2024
Unique Number : 11084428 **Diagnosed** : 18 Jun 2024 - Don Baldrige
Test Package : PLANT

IKO HAGERSTOWN
 160 IKO WAY
 HAGERSTOWN, MD
 US 21740
 Contact: LUIS FERNANDEZ
 luis.fernandez@iko.com
 T: (240)267-4100
 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)