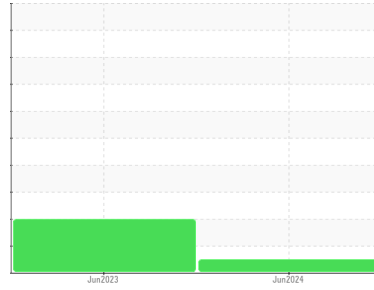


OIL ANALYSIS REPORT

Sample Rating Trend



NORMAL



Machine Id

376

Component

Hydraulic System

Fluid

PETRO CANADA HYDREX XV ALL SEASON HYDRAULIC OIL (100 LTR)

DIAGNOSIS

Recommendation

Resample at the next service interval to monitor.

Wear

All component wear rates are normal.

Contamination

The system cleanliness is acceptable for your target ISO 4406 cleanliness code. The system and fluid cleanliness is acceptable.

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		PC0087735	PC0076483	---
Sample Date	Client Info		24 Jun 2024	27 Jun 2023	---
Machine Age	yrs	Client Info	0	0	---
Oil Age	yrs	Client Info	1	2	---
Oil Changed	Client Info		Changed	Filtered	---
Sample Status			NORMAL	ABNORMAL	---

CONTAMINATION

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

WEAR METALS

	method	limit/base	current	history1	history2
Iron	ppm	ASTM D5185(m) >20	<1	<1	---
Chromium	ppm	ASTM D5185(m) >20	0	0	---
Nickel	ppm	ASTM D5185(m) >20	0	0	---
Titanium	ppm	ASTM D5185(m)	0	0	---
Silver	ppm	ASTM D5185(m)	0	0	---
Aluminum	ppm	ASTM D5185(m) >20	<1	<1	---
Lead	ppm	ASTM D5185(m) >20	0	0	---
Copper	ppm	ASTM D5185(m) >20	<1	<1	---
Tin	ppm	ASTM D5185(m) >20	0	0	---
Antimony	ppm	ASTM D5185(m)	0	0	---
Vanadium	ppm	ASTM D5185(m)	0	0	---
Beryllium	ppm	ASTM D5185(m)	0	0	---
Cadmium	ppm	ASTM D5185(m)	0	0	---

ADDITIVES

	method	limit/base	current	history1	history2
Boron	ppm	ASTM D5185(m) 0	0	<1	---
Barium	ppm	ASTM D5185(m) 0	0	0	---
Molybdenum	ppm	ASTM D5185(m) 0	0	0	---
Manganese	ppm	ASTM D5185(m) 1	0	0	---
Magnesium	ppm	ASTM D5185(m) 0	<1	<1	---
Calcium	ppm	ASTM D5185(m) 100	99	98	---
Phosphorus	ppm	ASTM D5185(m) 670	618	659	---
Zinc	ppm	ASTM D5185(m) 850	824	790	---
Sulfur	ppm	ASTM D5185(m) 1600	1460	1448	---
Lithium	ppm	ASTM D5185(m)	<1	<1	---

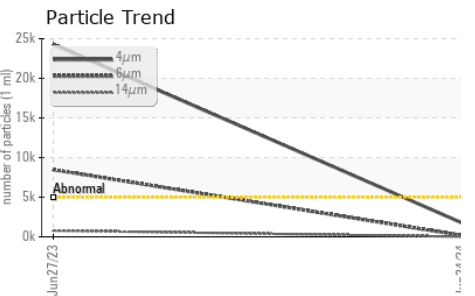
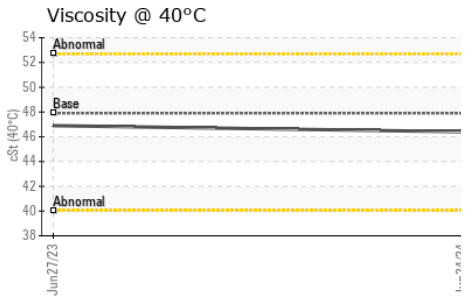
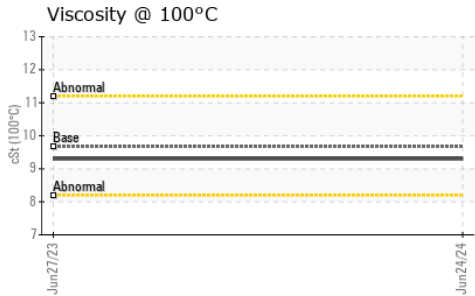
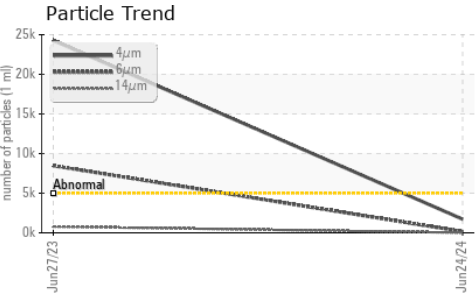
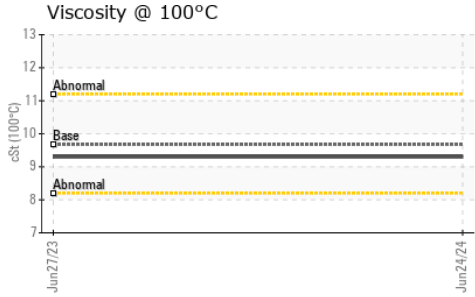
CONTAMINANTS

	method	limit/base	current	history1	history2
Silicon	ppm	ASTM D5185(m) >15	0	<1	---
Sodium	ppm	ASTM D5185(m)	0	0	---
Potassium	ppm	ASTM D5185(m) >20	<1	0	---

FLUID CLEANLINESS

	method	limit/base	current	history1	history2
Particles >4µm	ASTM D7647	>5000	1721	▲ 24283	---
Particles >6µm	ASTM D7647	>1300	155	▲ 8464	---
Particles >14µm	ASTM D7647	>160	11	▲ 786	---
Particles >21µm	ASTM D7647	>40	7	▲ 176	---
Particles >38µm	ASTM D7647	>10	5	4	---
Particles >71µm	ASTM D7647	>3	5	0	---
Oil Cleanliness	ISO 4406 (c)	>19/17/14	18/14/11	▲ 22/20/17	---

OIL ANALYSIS REPORT



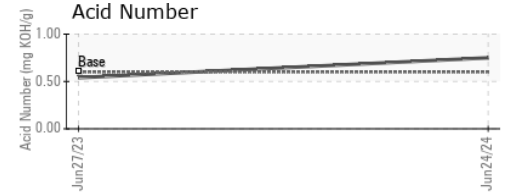
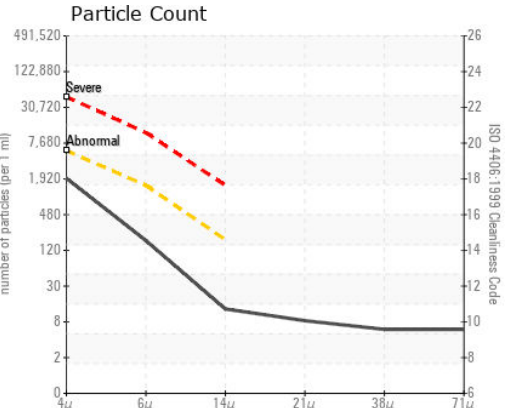
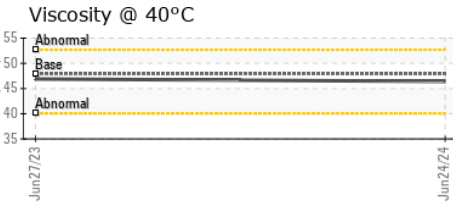
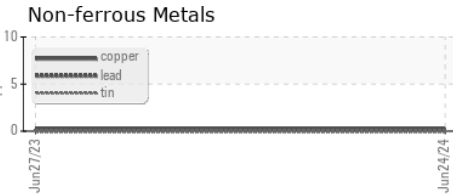
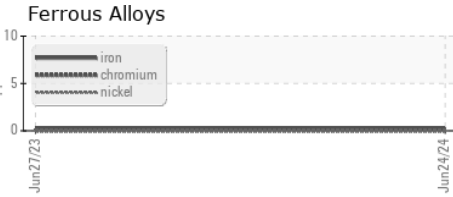
FLUID DEGRADATION		method	limit/base	current	history1	history2
Acid Number (AN)	mg KOH/g	ASTM D974*	0.60	0.75	0.54	---

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

FLUID PROPERTIES		method	limit/base	current	history1	history2
Visc @ 40°C	cSt	ASTM D7279(m)	47.9	46.4	46.9	---
Visc @ 100°C	cSt	ASTM D7279(m)	9.67	9.3	9.3	---
Viscosity Index (VI)	Scale	ASTM D2270*	192	188	185	---

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

GRAPHS



Laboratory : WearCheck - C8-1175 Appleby Line, Burlington, ON L7L 5H9
Sample No. : PC0087735 **Received** : 25 Jun 2024
Lab Number : **02644040** **Tested** : 26 Jun 2024
Unique Number : 5801579 **Diagnosed** : 26 Jun 2024 - Wes Davis
Test Package : IND 2 (Additional Tests: KV100, VI)

To discuss this sample report, contact Customer Service at 1-800-268-2131.
 Test denoted (*) outside scope of accreditation, (m) method modified, (e) tested at external lab.
 Validity of results and interpretation are based on the sample and information as supplied.

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