

PROBLEM SUMMARY

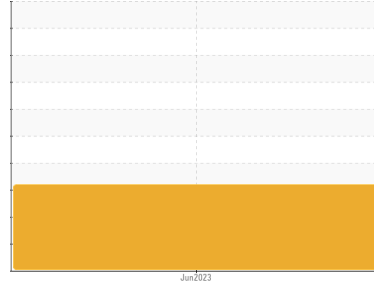
Sample Rating Trend

VISUAL METAL

Machine Id
2939

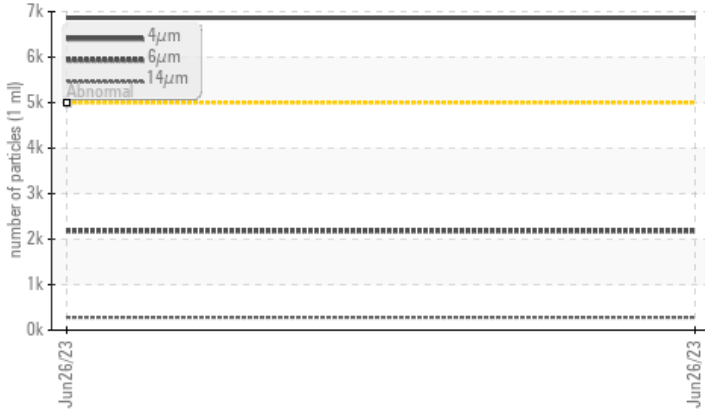
Component
Hydraulic System

Fluid
PETRO CANADA HYDREX XV ALL SEASON HYDRAULIC OIL (50 LTR)



COMPONENT CONDITION SUMMARY

▲ Particle Trend



RECOMMENDATION

We advise that you check for visible metal particles in the oil. We recommend an early resample to monitor this condition.

PROBLEMATIC TEST RESULTS

Sample Status				ABNORMAL	---	---
Particles >4µm	ASTM D7647	>5000	▲ 6866	---	---	---
Particles >6µm	ASTM D7647	>1300	▲ 2181	---	---	---
Particles >14µm	ASTM D7647	>160	▲ 279	---	---	---
Particles >21µm	ASTM D7647	>40	▲ 81	---	---	---
Oil Cleanliness	ISO 4406 (c)	>19/17/14	▲ 20/18/15	---	---	---
White Metal	scalar	Visual*	NONE	▲ VLITE	---	---
PrtFilter					no image	no image

Customer Id: WALFER
Sample No.: PC0076494
Lab Number: 02567316
Test Package: IND 2



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To discuss the diagnosis or test data:
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RECOMMENDED ACTIONS

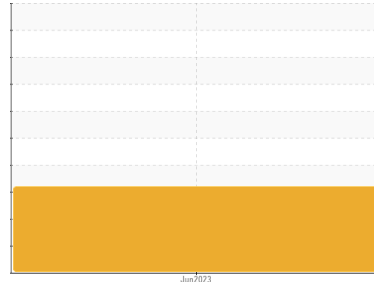
Action	Status	Date	Done By	Description
Resample	---	---	?	We recommend an early resample to monitor this condition.
Check For Visual Metal	---	---	?	We advise that you check for visible metal particles in the oil.

HISTORICAL DIAGNOSIS

Machine Id
2939

Component
Hydraulic System

Fluid
PETRO CANADA HYDREX XV ALL SEASON HYDRAULIC OIL (50 LTR)



DIAGNOSIS

Recommendation
We advise that you check for visible metal particles in the oil. We recommend an early resample to monitor this condition.

Wear
Light concentration of visible metal present.

Contamination
There is a moderate amount of particulates (2 to 100 microns in size) present in the oil.

Fluid Condition
The AN level is acceptable for this fluid.

SAMPLE INFORMATION	method	limit/base	current	history 1	history 2
Sample Number	Client Info		PC0076494	---	---
Sample Date	Client Info		26 Jun 2023	---	---
Machine Age	yrs	Client Info	0	---	---
Oil Age	yrs	Client Info	2	---	---
Oil Changed	Client Info		N/A	---	---
Sample Status			ABNORMAL	---	---

WEAR METALS	method	limit/base	current	history 1	history 2	
Iron	ppm	ASTM D5185(m)	>20	<1	---	---
Chromium	ppm	ASTM D5185(m)	>20	0	---	---
Nickel	ppm	ASTM D5185(m)	>20	0	---	---
Titanium	ppm	ASTM D5185(m)		0	---	---
Silver	ppm	ASTM D5185(m)		0	---	---
Aluminum	ppm	ASTM D5185(m)	>20	0	---	---
Lead	ppm	ASTM D5185(m)	>20	0	---	---
Copper	ppm	ASTM D5185(m)	>20	1	---	---
Tin	ppm	ASTM D5185(m)	>20	0	---	---
Antimony	ppm	ASTM D5185(m)		0	---	---
Vanadium	ppm	ASTM D5185(m)		0	---	---
Beryllium	ppm	ASTM D5185(m)		0	---	---
Cadmium	ppm	ASTM D5185(m)		0	---	---

ADDITIVES	method	limit/base	current	history 1	history 2	
Boron	ppm	ASTM D5185(m)	0	<1	---	---
Barium	ppm	ASTM D5185(m)	0	0	---	---
Molybdenum	ppm	ASTM D5185(m)	0	0	---	---
Manganese	ppm	ASTM D5185(m)	1	0	---	---
Magnesium	ppm	ASTM D5185(m)	0	<1	---	---
Calcium	ppm	ASTM D5185(m)	100	96	---	---
Phosphorus	ppm	ASTM D5185(m)	670	641	---	---
Zinc	ppm	ASTM D5185(m)	850	779	---	---
Sulfur	ppm	ASTM D5185(m)	1600	1395	---	---
Lithium	ppm	ASTM D5185(m)		<1	---	---

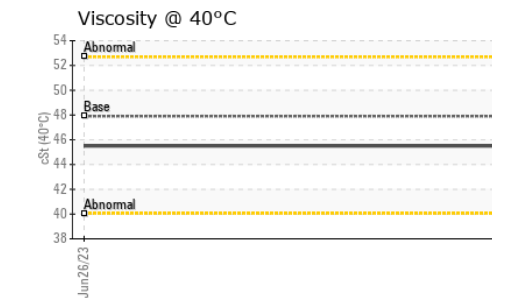
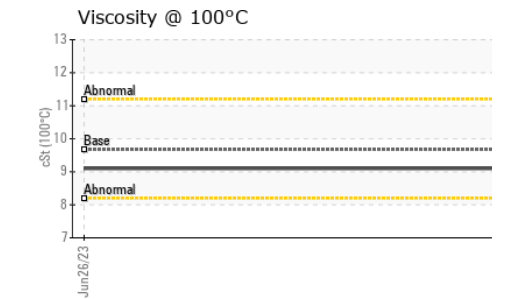
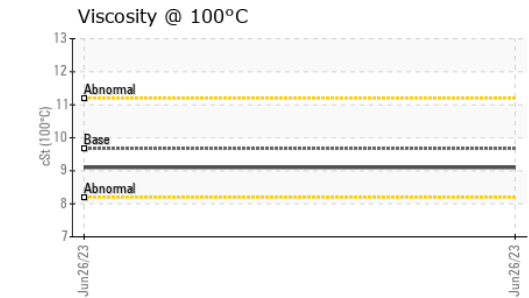
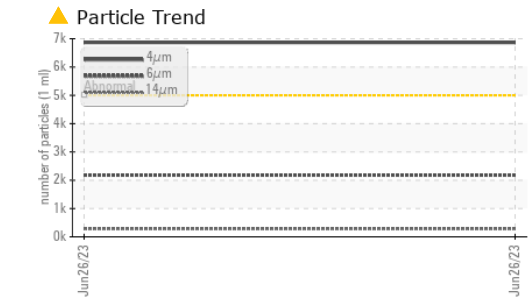
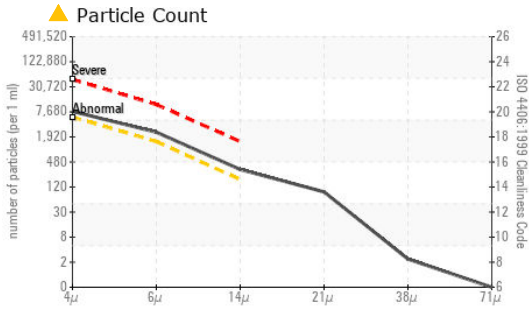
CONTAMINANTS	method	limit/base	current	history 1	history 2	
Silicon	ppm	ASTM D5185(m)	>15	<1	---	---
Sodium	ppm	ASTM D5185(m)		0	---	---
Potassium	ppm	ASTM D5185(m)	>20	0	---	---

FLUID CLEANLINESS	method	limit/base	current	history 1	history 2
Particles >4µm	ASTM D7647	>5000	▲ 6866	---	---
Particles >6µm	ASTM D7647	>1300	▲ 2181	---	---
Particles >14µm	ASTM D7647	>160	▲ 279	---	---
Particles >21µm	ASTM D7647	>40	▲ 81	---	---
Particles >38µm	ASTM D7647	>10	2	---	---
Particles >71µm	ASTM D7647	>3	0	---	---
Oil Cleanliness	ISO 4406 (c)	>19/17/14	▲ 20/18/15	---	---

FLUID DEGRADATION	method	limit/base	current	history 1	history 2	
Acid Number (AN)	mg KOH/g	ASTM D974*	0.60	0.48	---	---



OIL ANALYSIS REPORT

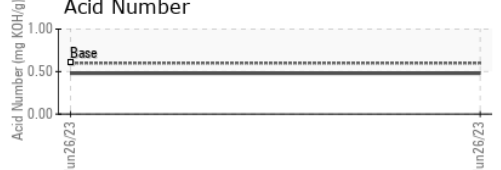
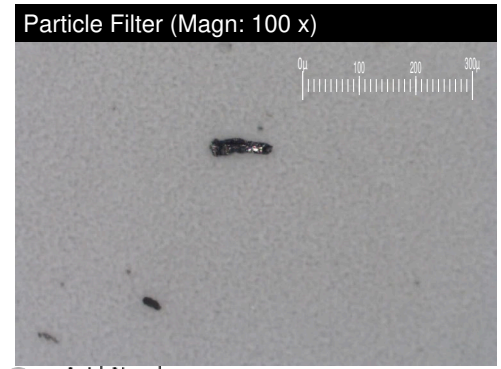
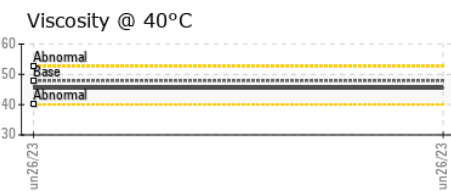


VISUAL	method	limit/base	current	history 1	history 2
White Metal	scalar	Visual*	NONE	▲ VLITE	---
Yellow Metal	scalar	Visual*	NONE	NONE	---
Precipitate	scalar	Visual*	NONE	NONE	---
Silt	scalar	Visual*	NONE	NONE	---
Debris	scalar	Visual*	NONE	NONE	---
Sand/Dirt	scalar	Visual*	NONE	NONE	---
Appearance	scalar	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	history 1	history 2
Visc @ 40°C	cSt	ASTM D7279(m)	47.9	45.5	---
Visc @ 100°C	cSt	ASTM D7279(m)	9.67	9.1	---
Viscosity Index (VI)	Scale	ASTM D2270*	192	186	---

SAMPLE IMAGES	method	limit/base	current	history 1	history 2
Color				no image	no image
Bottom				no image	no image
PrtFilter				no image	no image

GRAPHS



Laboratory : WearCheck - C8-1175 Appleby Line, Burlington, ON L7L 5H9
Sample No. : PC0076494 **Received** : 29 Jun 2023
Lab Number : 02567316 **Diagnosed** : 30 Jun 2023
Unique Number : 5604362 **Diagnostician** : Kevin Marson
Test Package : IND 2 (Additional Tests: Bottom, BottomAnalysis, FilterPatch, KV100, PrtFilter, VI)

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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.