

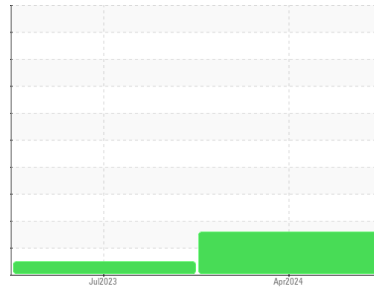


OIL ANALYSIS REPORT



Machine Id
OR1975
 Component
Rear Hydraulic System
 Fluid
PETRO CANADA HYDREX XV ALL SEASON HYDRAULIC OIL (84 LTR)

Sample Rating Trend



DIAGNOSIS

Recommendation

The filter change at the time of sampling has been noted. We recommend an early resample to monitor this condition.

Wear

Iron ppm levels are noted. The low ferrous density (PQ) index indicates the wear metal levels are due to corrosion. All other component wear rates are normal.

Contamination

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

Fluid Condition

The oil is still serviceable provided that the contaminant(s) can be reduced to acceptable levels.

SAMPLE INFORMATION

	method	limit/base	current	history1	history2
Sample Number	Client Info		GFL0113411	GFL0087347	---
Sample Date	Client Info		29 Apr 2024	19 Jul 2023	---
Machine Age	hrs	Client Info	8207	6950	---
Oil Age	hrs	Client Info	1500	1000	---
Oil Changed	Client Info		Not Chngd	Not Chngd	---
Sample Status			ABNORMAL	NORMAL	---

CONTAMINATION

	method	limit/base	current	history1	history2
Water	WC Method	>0.1	NEG	NEG	---

WEAR METALS

	method	limit/base	current	history1	history2
PQ	ASTM D8184*		2	---	---
Iron	ppm	ASTM D5185(m) >20	30	19	---
Chromium	ppm	ASTM D5185(m) >10	<1	<1	---
Nickel	ppm	ASTM D5185(m) >10	0	0	---
Titanium	ppm	ASTM D5185(m)	<1	<1	---
Silver	ppm	ASTM D5185(m)	0	0	---
Aluminum	ppm	ASTM D5185(m) >10	4	2	---
Lead	ppm	ASTM D5185(m) >10	0	<1	---
Copper	ppm	ASTM D5185(m) >75	5	4	---
Tin	ppm	ASTM D5185(m) >10	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	2	1	---
Barium	ppm	ASTM D5185(m) 0	0	0	---
Molybdenum	ppm	ASTM D5185(m) 0	0	<1	---
Manganese	ppm	ASTM D5185(m) 1	<1	<1	---
Magnesium	ppm	ASTM D5185(m) 0	9	6	---
Calcium	ppm	ASTM D5185(m) 100	633	357	---
Phosphorus	ppm	ASTM D5185(m) 670	780	784	---
Zinc	ppm	ASTM D5185(m) 850	950	928	---
Sulfur	ppm	ASTM D5185(m) 1600	2278	1984	---
Lithium	ppm	ASTM D5185(m)	<1	<1	---

CONTAMINANTS

	method	limit/base	current	history1	history2
Silicon	ppm	ASTM D5185(m) >20	13	8	---
Sodium	ppm	ASTM D5185(m)	2	1	---
Potassium	ppm	ASTM D5185(m) >20	3	2	---

