



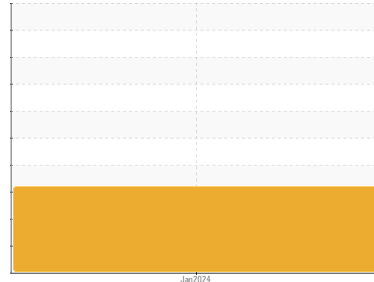
OIL ANALYSIS REPORT

Sample Rating Trend

WEAR



Machine Id
Or1982
 Component
Front Right Planetary
 Fluid
PETRO CANADA TRAXON XL SYN BLEND 80W140 (2 LTR)



DIAGNOSIS

▲ Recommendation

We advise that you check for visible metal particles in the oil. We recommend that you drain the oil from the component if this has not already been done. We recommend an early resample to monitor this condition.

▲ Wear

Light concentration of visible metal present. Gear wear is indicated. The high ferrous density (PQ) index indicates that abnormal wear is occurring.

Contamination

There is no indication of any contamination in the oil.

Fluid Condition

Viscosity of sample indicates oil is within SAE 90W140 range, advise investigate. The oil is no longer serviceable as a result of the abnormal and/or severe wear.

SAMPLE INFORMATION

	method	limit/base	current	history1	history2
Sample Number	Client Info		GFL0092294	---	---
Sample Date	Client Info		19 Jan 2024	---	---
Machine Age	hrs	Client Info	9642	---	---
Oil Age	hrs	Client Info	500	---	---
Oil Changed	Client Info		Diff Oil	---	---
Sample Status			ABNORMAL	---	---

CONTAMINATION

	method	limit/base	current	history1	history2
Water	WC Method	>0.2	NEG	---	---

WEAR METALS

	method	limit/base	current	history1	history2
PQ	ASTM D8184*		▲ 1243	---	---
Iron	ppm	ASTM D5185(m) >500	674	---	---
Chromium	ppm	ASTM D5185(m) >10	7	---	---
Nickel	ppm	ASTM D5185(m) >10	1	---	---
Titanium	ppm	ASTM D5185(m)	0	---	---
Silver	ppm	ASTM D5185(m)	0	---	---
Aluminum	ppm	ASTM D5185(m) >25	2	---	---
Lead	ppm	ASTM D5185(m) >25	10	---	---
Copper	ppm	ASTM D5185(m) >75	50	---	---
Tin	ppm	ASTM D5185(m) >10	6	---	---
Antimony	ppm	ASTM D5185(m) >5	15	---	---
Vanadium	ppm	ASTM D5185(m)	0	---	---
Beryllium	ppm	ASTM D5185(m)	0	---	---
Cadmium	ppm	ASTM D5185(m)	0	---	---

ADDITIVES

	method	limit/base	current	history1	history2
Boron	ppm	ASTM D5185(m) 246	165	---	---
Barium	ppm	ASTM D5185(m) 1	0	---	---
Molybdenum	ppm	ASTM D5185(m)	0	---	---
Manganese	ppm	ASTM D5185(m)	5	---	---
Magnesium	ppm	ASTM D5185(m) 1	0	---	---
Calcium	ppm	ASTM D5185(m) 2	3	---	---
Phosphorus	ppm	ASTM D5185(m) 976	981	---	---
Zinc	ppm	ASTM D5185(m) 3	6	---	---
Sulfur	ppm	ASTM D5185(m) 15600	16571	---	---
Lithium	ppm	ASTM D5185(m)	<1	---	---

CONTAMINANTS

	method	limit/base	current	history1	history2
Silicon	ppm	ASTM D5185(m) >75	19	---	---
Sodium	ppm	ASTM D5185(m)	<1	---	---
Potassium	ppm	ASTM D5185(m) >20	<1	---	---

