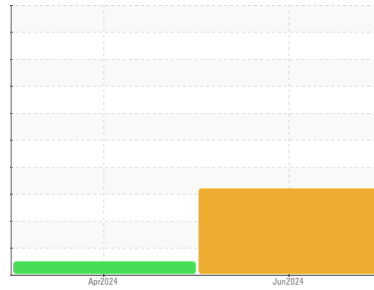




OIL ANALYSIS REPORT

Sample Rating Trend



Machine Id
EX0354
 Component
Rear Right Final Drive
 Fluid
PETRO CANADA TRAXON E SYNTHETIC 80W-140 (5 LTR)

DIAGNOSIS

Recommendation

We advise that you check all areas where dirt can enter the system. The oil change at the time of sampling has been noted. We recommend an early resample to monitor this condition.

Wear

Chromium ppm levels are abnormal. Aluminum ppm levels are noted. A sharp increase in the chromium level is noted.

Contamination

Elemental levels of silicon (Si) and aluminum (Al) indicate alumina-silicate (coarse dirt) ingress. High amount of ingressed dirt has caused abrasive wear to the component.

Fluid Condition

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		GFL0113439	GFL0113408	---
Sample Date	Client Info		20 Jun 2024	08 Apr 2024	---
Machine Age	hrs	Client Info	25281	24807	---
Oil Age	hrs	Client Info	474	1000	---
Oil Changed	Client Info		Changed	Not Changd	---
Sample Status			ABNORMAL	NORMAL	---

CONTAMINATION

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

WEAR METALS

	method	limit/base	current	history1	history2
Iron	ppm	ASTM D5185(m)	>500	391	202
Chromium	ppm	ASTM D5185(m)	>10	▲ 15	7
Nickel	ppm	ASTM D5185(m)	>10	<1	<1
Titanium	ppm	ASTM D5185(m)		5	3
Silver	ppm	ASTM D5185(m)		<1	0
Aluminum	ppm	ASTM D5185(m)	>25	● 94	62
Lead	ppm	ASTM D5185(m)	>25	0	0
Copper	ppm	ASTM D5185(m)	>50	1	<1
Tin	ppm	ASTM D5185(m)	>10	0	0
Antimony	ppm	ASTM D5185(m)	>5	1	<1
Vanadium	ppm	ASTM D5185(m)		<1	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)	202	156	104
Barium	ppm	ASTM D5185(m)	<1	<1	<1
Molybdenum	ppm	ASTM D5185(m)		1	0
Manganese	ppm	ASTM D5185(m)		4	2
Magnesium	ppm	ASTM D5185(m)	<1	29	20
Calcium	ppm	ASTM D5185(m)		551	371
Phosphorus	ppm	ASTM D5185(m)	1209	862	856
Zinc	ppm	ASTM D5185(m)	1	20	12
Sulfur	ppm	ASTM D5185(m)	20439	15194	16064
Lithium	ppm	ASTM D5185(m)		<1	<1

CONTAMINANTS

	method	limit/base	current	history1	history2
Silicon	ppm	ASTM D5185(m)	>75	▲ 318	197
Sodium	ppm	ASTM D5185(m)		23	14
Potassium	ppm	ASTM D5185(m)	>20	32	20

