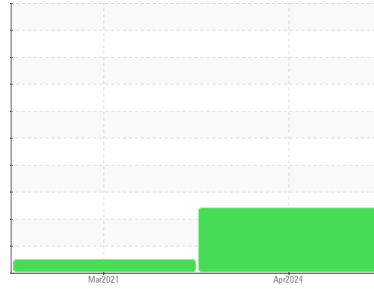




OIL ANALYSIS REPORT

Sample Rating Trend



VISCOSITY



Machine Id
OR343
 Component
Right Outer Final Drive
 Fluid
PETRO CANADA DURATRAN (--- GAL)

DIAGNOSIS

Recommendation

Confirm the source of the lubricant being utilized for top-up/fill. Resample at the next service interval to monitor.

Wear

All component wear rates are normal.

Contamination

There is no indication of any contamination in the oil.

Fluid Condition

Viscosity of sample indicates oil is within ISO 46 range, advise investigate. This plus the additive levels indicates that this is not the same brand, or type of oil as reported. The condition of the oil is acceptable for the time in service.

SAMPLE INFORMATION		method	limit/base	current	history1	history2
Sample Number	Client Info			GFL0113340	GFL0010821	---
Sample Date	Client Info			15 Apr 2024	10 Mar 2021	---
Machine Age	hrs	Client Info		16058	12385	---
Oil Age	hrs	Client Info		3673	500	---
Oil Changed		Client Info		Not Chngd	Changed	---
Sample Status				ABNORMAL	NORMAL	---

CONTAMINATION		method	limit/base	current	history1	history2
Water	WC Method		>0.075	NEG	NEG	---

WEAR METALS		method	limit/base	current	history1	history2
Iron	ppm	ASTM D5185(m)	>750	84	11	---
Chromium	ppm	ASTM D5185(m)	>9	<1	0	---
Nickel	ppm	ASTM D5185(m)	>10	<1	<1	---
Titanium	ppm	ASTM D5185(m)		<1	<1	---
Silver	ppm	ASTM D5185(m)		0	<1	---
Aluminum	ppm	ASTM D5185(m)	>40	2	1	---
Lead	ppm	ASTM D5185(m)	>15	0	0	---
Copper	ppm	ASTM D5185(m)	>40	<1	<1	---
Tin	ppm	ASTM D5185(m)	>10	0	0	---
Antimony	ppm	ASTM D5185(m)	>5	0	<1	---
Vanadium	ppm	ASTM D5185(m)		0	<1	---
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)	110	7	6	---
Barium	ppm	ASTM D5185(m)	0.0	0	0	---
Molybdenum	ppm	ASTM D5185(m)	0.0	0	3	---
Manganese	ppm	ASTM D5185(m)	1	<1	<1	---
Magnesium	ppm	ASTM D5185(m)	13	7	111	---
Calcium	ppm	ASTM D5185(m)	3610	341	3451	---
Phosphorus	ppm	ASTM D5185(m)	1192	628	1000	---
Zinc	ppm	ASTM D5185(m)	1455	814	1225	---
Sulfur	ppm	ASTM D5185(m)	2641	1591	3268	---
Lithium	ppm	ASTM D5185(m)		<1	<1	---

CONTAMINANTS		method	limit/base	current	history1	history2
Silicon	ppm	ASTM D5185(m)	>75	11	9	---
Sodium	ppm	ASTM D5185(m)	>51	1	1	---
Potassium	ppm	ASTM D5185(m)	>20	<1	10	---

