

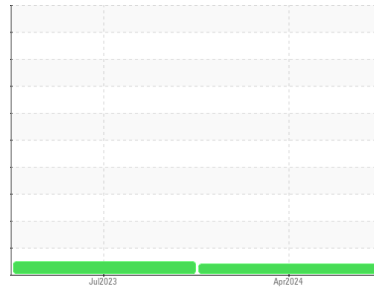


OIL ANALYSIS REPORT



Machine Id
OR1975
 Component
Rear Right Final Drive
 Fluid
PETRO CANADA PRODURO TO-4 SAE 30 (10 LTR)

Sample Rating Trend



VISCOSITY



DIAGNOSIS

Recommendation

Confirm the source of the lubricant being utilized for top-up/fill. Resample at the next service interval to monitor. The fluid was specified as PETRO CANADA PRODURO TO-4 SAE 30, however, a fluid match indicates that this fluid is SAE 20 Transmission/Drive Train Oil. Please confirm the oil type and grade on your next sample.

Wear

All component wear rates are normal.

Contamination

There is no indication of any contamination in the oil.

Fluid Condition

The oil viscosity is lower than typical, possibly indicating the addition of lighter grade oil. The condition of the oil is acceptable for the time in service.

SAMPLE INFORMATION

	method	limit/base	current	history1	history2
Sample Number	Client Info		GFL0113412	GFL0087349	---
Sample Date	Client Info		29 Apr 2024	19 Jul 2023	---
Machine Age	hrs	Client Info	8207	6950	---
Oil Age	hrs	Client Info	1000	1000	---
Oil Changed	Client Info		Not Chngd	Not Chngd	---
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)	>800	56	74	---
Chromium	ppm	ASTM D5185(m)	>10	1	2	---
Nickel	ppm	ASTM D5185(m)	>5	0	<1	---
Titanium	ppm	ASTM D5185(m)	>15	<1	<1	---
Silver	ppm	ASTM D5185(m)	>2	0	0	---
Aluminum	ppm	ASTM D5185(m)	>75	10	7	---
Lead	ppm	ASTM D5185(m)	>10	0	<1	---
Copper	ppm	ASTM D5185(m)	>75	3	3	---
Tin	ppm	ASTM D5185(m)	>8	0	0	---
Antimony	ppm	ASTM D5185(m)	>50	0	0	---
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)	2	2	4	---
Barium	ppm	ASTM D5185(m)	0	<1	0	---
Molybdenum	ppm	ASTM D5185(m)	0	<1	1	---
Manganese	ppm	ASTM D5185(m)	9	<1	<1	---
Magnesium	ppm	ASTM D5185(m)	1	20	10	---
Calcium	ppm	ASTM D5185(m)	3131	1655	1437	---
Phosphorus	ppm	ASTM D5185(m)	1194	858	904	---
Zinc	ppm	ASTM D5185(m)	1281	1030	1032	---
Sulfur	ppm	ASTM D5185(m)	3811	2693	4654	---
Lithium	ppm	ASTM D5185(m)		<1	<1	---

CONTAMINANTS

	method	limit/base	current	history1	history2	
Silicon	ppm	ASTM D5185(m)	>400	33	31	---
Sodium	ppm	ASTM D5185(m)		3	3	---
Potassium	ppm	ASTM D5185(m)	>20	5	3	---

