

OIL ANALYSIS REPORT



VISCOSITY





Loader **SRF0110**

Component **Front Axle**

PETRO CANADA PRODURO TO-4 SAE 30 (84 LTR)

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 5W20 Transmission/Drive Train Oil. Please confirm the oil type and grade on your next sample.

All component wear rates are normal.

Contamination

There is no indication of any contamination in the oil.

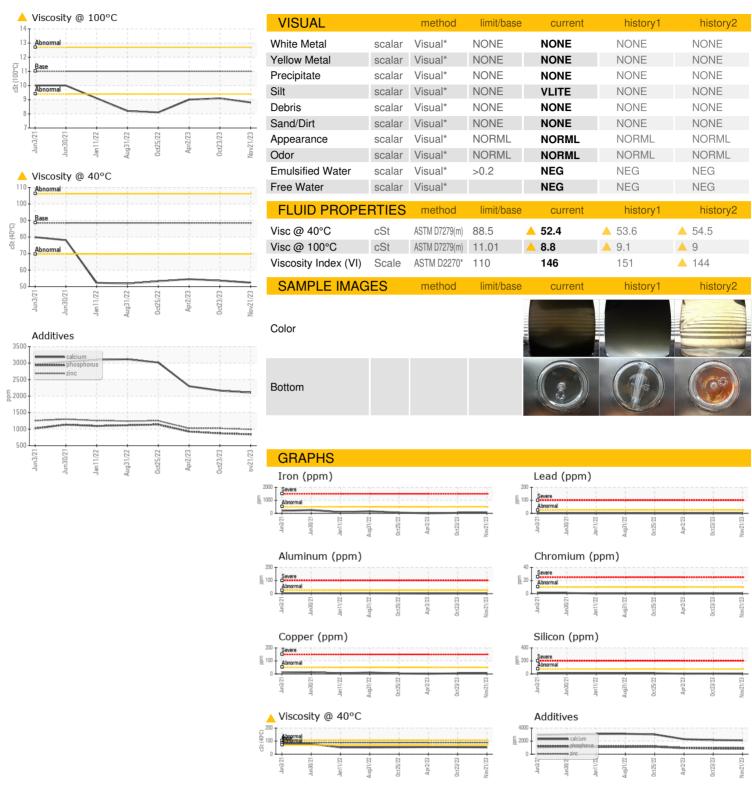
▲ Fluid Condition

Viscosity of sample indicates oil is within SAE 5W20 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.

RO TO-4 SAE 30 (84 LTR)	Jun2021 .	Jun2021 Jan2022 Aug20	22 Oct2022 Apr2023 Oct2023	Nov2023	
SAMPLE INFOR	MATION	method	limit/base	current	history1	history2
Sample Number		Client Info		PC0074868	PC0051327	PC0067283
Sample Date		Client Info		21 Nov 2023	23 Oct 2023	02 Apr 2023
Machine Age	hrs	Client Info		28756	28318	25313
Oil Age	hrs	Client Info		0	0	0
Oil Changed		Client Info		N/A	N/A	N/A
Sample Status				ABNORMAL	ABNORMAL	ABNORMAL
CONTAMINAT	ION	method	limit/base	current	history1	history2
Water		WC Method	>0.2	NEG	NEG	NEG
WEAR METAL	.S	method	limit/base	current	history1	history2
ron	ppm	ASTM D5185(m)	>500	31	36	6
Chromium	ppm	ASTM D5185(m)	>10	0	0	0
Nickel	ppm	ASTM D5185(m)	>10	0	<1	0
Titanium	ppm	ASTM D5185(m)		0	0	<1
Silver	ppm	ASTM D5185(m)		<1	<1	0
Aluminum	ppm	ASTM D5185(m)	>25	<1	1	<1
_ead	ppm	ASTM D5185(m)	>25	<1	0	0
Copper	ppm	ASTM D5185(m)	>50	6	4	1
Tin	ppm	ASTM D5185(m)	>10	0	0	0
Antimony	ppm	ASTM D5185(m)	>5	0	0	0
Vanadium	ppm	ASTM D5185(m)		0	0	0
Beryllium	ppm	ASTM D5185(m)		0	0	0
Cadmium	ppm	ASTM D5185(m)		0	0	0
ADDITIVES		method	limit/base	current	history1	history2
Boron	ppm	ASTM D5185(m)	2	1	2	9
Barium	ppm	ASTM D5185(m)	0	<1	<1	0
Molybdenum	ppm	ASTM D5185(m)	0	0	0	1
Manganese	ppm	ASTM D5185(m)	9	0	0	<1
Magnesium	ppm	ASTM D5185(m)	1	7	11	24
Calcium	ppm	ASTM D5185(m)	3131	2106	2166	2299
Phosphorus	ppm	ASTM D5185(m)	1194	842	872	925
Zinc	ppm	ASTM D5185(m)	1281	993	1024	1022
Sulfur	ppm	ASTM D5185(m)	3811	2578	2908	2739
Lithium	ppm	ASTM D5185(m)		<1	<1	<1
CONTAMINAN	ITS	method	limit/base	current	history1	history2
Silicon	ppm	ASTM D5185(m)	>75	3	5	4
	ppm	ASTM D5185(m) ASTM D5185(m)	>75	3 <1	5 <1	4 <1



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CALA ISO 17025:2017 Accredited Laboratory

Laboratory Sample No. Lab Number **Unique Number** Test Package

: PC0074868 02601293

: 5694378

: WearCheck - C8-1175 Appleby Line, Burlington, ON L7L 5H9 Received Diagnosed

: 07 Dec 2023 Diagnostician : Bill Quesnel : MOB 1 (Additional Tests: KV100, VI)

: 06 Dec 2023

To discuss this sample report, contact Customer Service at 1-800-268-2131. Test denoted (*) outside scope of accreditation, (m) method modified, (e) tested at external lab. Validity of results and interpretation are based on the sample and information as supplied.

Lakeshore Gold Timmins West

Timmins, ON CA

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