



WEAR	<b>NORMAL</b>
CONTAMINATION	<b>NORMAL</b>
FLUID CONDITION	<b>ABNORMAL</b>



Area  
**Haul Truck**  
Machine Id  
**HT4502**  
Component  
**Front Differential**  
Fluid  
**PETRO CANADA PRODURO FD-1 60 (77 LTR)**

**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.

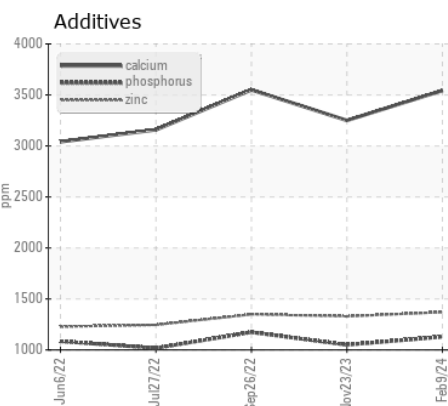
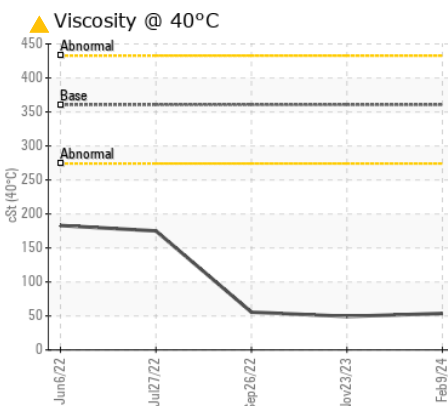
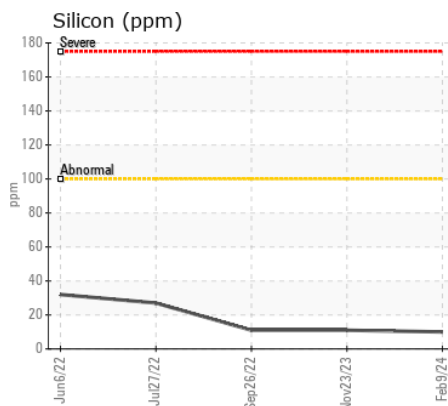
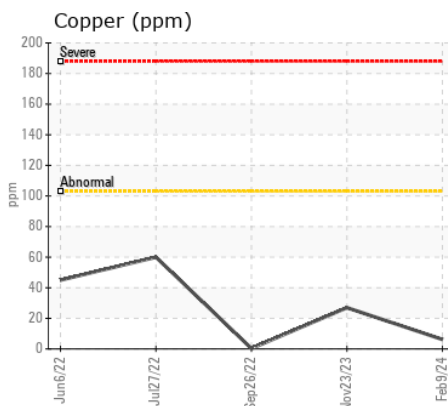
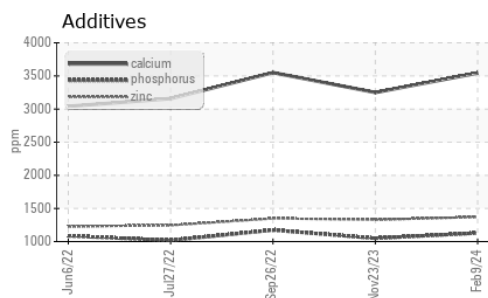
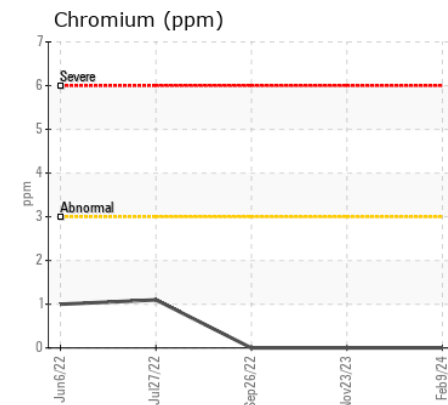
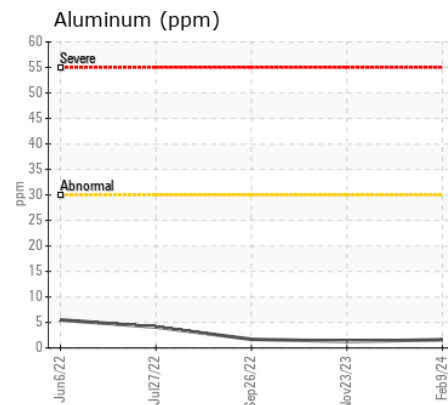
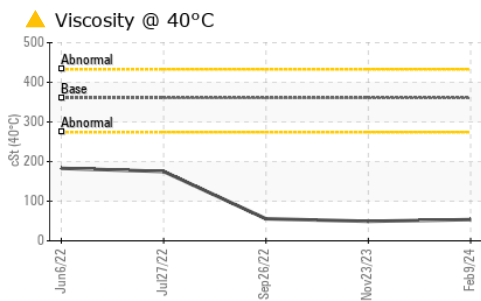
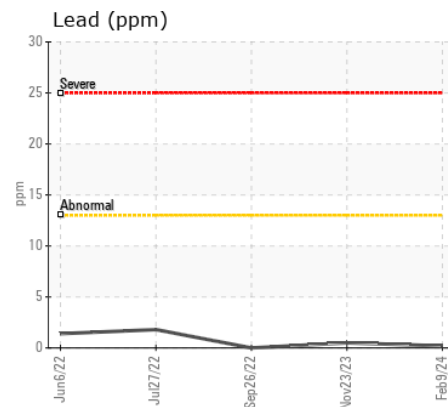
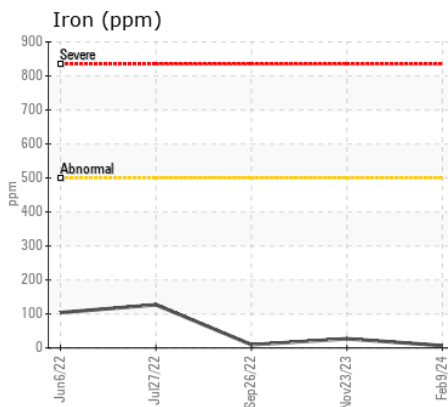
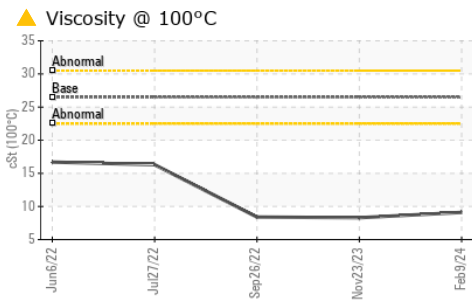
**CONTAMINATION**

There is no indication of any contamination in the oil.

**FLUID CONDITION**

Additive levels indicate the addition of a different brand, or type of oil. Viscosity of sample indicates oil is within SAE 75W80 range, advise investigate. The condition of the oil is acceptable for the time in service.

Test	UOM	Method	Limit/Abn	Current	History1	History2
Sample Number		Client Info		<b>PC0083353</b>	PC0074886	PC0048751
Sample Date		Client Info		<b>09 Feb 2024</b>	23 Nov 2023	26 Sep 2022
Machine Age	hrs	Client Info		<b>0</b>	6729	1944
Oil Age	hrs	Client Info		<b>0</b>	0	0
Filter Age	hrs	Client Info		<b>0</b>	0	0
Oil Changed		Client Info		<b>N/A</b>	N/A	N/A
Filter Changed		Client Info		<b>N/A</b>	N/A	N/A
Sample Status				<b>ABNORMAL</b>	NORMAL	ABNORMAL
Iron	ppm	ASTM D5185(m)	>500	<b>7</b>	27	9
Chromium	ppm	ASTM D5185(m)	>3	<b>0</b>	0	0
Nickel	ppm	ASTM D5185(m)	>3	<b>0</b>	0	<1
Titanium	ppm	ASTM D5185(m)	>2	<b>0</b>	0	<1
Silver	ppm	ASTM D5185(m)	>2	<b>0</b>	<1	0
Aluminum	ppm	ASTM D5185(m)	>30	<b>2</b>	1	2
Lead	ppm	ASTM D5185(m)	>13	<b>&lt;1</b>	<1	0
Copper	ppm	ASTM D5185(m)	>103	<b>6</b>	27	<1
Tin	ppm	ASTM D5185(m)	>5	<b>0</b>	<1	0
Vanadium	ppm	ASTM D5185(m)		<b>0</b>	0	0
White Metal	scalar	Visual*	NONE	<b>NONE</b>	NONE	NONE
Yellow Metal	scalar	Visual*	NONE	<b>NONE</b>	NONE	NONE
Silicon	ppm	ASTM D5185(m)	>100	<b>10</b>	11	11
Potassium	ppm	ASTM D5185(m)	>20	<b>&lt;1</b>	<1	0
Water		WC Method	>.2	<b>NEG</b>	NEG	NEG
Silt	scalar	Visual*	NONE	<b>NONE</b>	VLITE	NONE
Debris	scalar	Visual*	NONE	<b>NONE</b>	NONE	VLITE
Sand/Dirt	scalar	Visual*	NONE	<b>VLITE</b>	NONE	NONE
Appearance	scalar	Visual*	NORML	<b>NORML</b>	NORML	NORML
Odor	scalar	Visual*	NORML	<b>NORML</b>	NORML	NORML
Emulsified Water	scalar	Visual*	>.2	<b>NEG</b>	NEG	NEG
Sodium	ppm	ASTM D5185(m)		<b>&lt;1</b>	<1	1
Boron	ppm	ASTM D5185(m)	92	<b>95</b>	79	102
Barium	ppm	ASTM D5185(m)	0	<b>0</b>	<1	0
Molybdenum	ppm	ASTM D5185(m)	0	<b>0</b>	0	1
Manganese	ppm	ASTM D5185(m)	0	<b>0</b>	0	<1
Magnesium	ppm	ASTM D5185(m)	0	<b>16</b>	14	25
Calcium	ppm	ASTM D5185(m)	283	<b>3543</b>	3250	3550
Phosphorus	ppm	ASTM D5185(m)	306	<b>1129</b>	1050	1174
Zinc	ppm	ASTM D5185(m)	0	<b>1371</b>	1329	1349
Sulfur	ppm	ASTM D5185(m)	9080	<b>2848</b>	2703	2722
Visc @ 40°C	cSt	ASTM D7279(m)	360.6	<b>▲ 53.6</b>	49.3	▲ 55.6
Visc @ 100°C	cSt	ASTM D7279(m)	26.49	<b>▲ 9.1</b>	8.3	▲ 8.4
Viscosity Index (VI)	Scale	ASTM D2270*	98	<b>▲ 151</b>	142	▲ 123



ISO 17025:2017  
Accredited  
Laboratory

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

Sample No. : PC0083353

Lab Number : 02619630

Unique Number : 5736740

Test Package : MOB 1 ( Additional Tests: KV100, VI )

Received : 04 Mar 2024

Tested : 04 Mar 2024

Diagnosed : 04 Mar 2024 - Kevin Marson

Lakeshore Gold Timmins West

Timmins, ON  
CA

Contact: Dale Arseneau  
darseneau@ca.panamericansilver.com

T: (705)269-4344

F:

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.