



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



Area  
**Scoop 6 Yard**  
Machine Id  
**LHD6102**  
Component  
**Rear Differential**  
Fluid  
**PETRO CANADA TRAXON 80W90 (29 LTR)**

**RECOMMENDATION**

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

Test	UOM	Method	Limit/Abn	Current	History1	History2
Sample Number		Client Info		<b>PC0084669</b>	PC0075093	PC0066831
Sample Date		Client Info		<b>30 Apr 2024</b>	02 Nov 2023	11 May 2023
Machine Age	hrs	Client Info		<b>4879</b>	3868	2662
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>NORMAL</b>	NORMAL	NORMAL

**WEAR**

All component wear rates are normal.

Iron	ppm	ASTM D5185(m)	>500	<b>167</b>	143	62
Chromium	ppm	ASTM D5185(m)	>10	<b>&lt;1</b>	<1	<1
Nickel	ppm	ASTM D5185(m)	>10	<b>0</b>	<1	0
Titanium	ppm	ASTM D5185(m)		<b>0</b>	0	<1
Silver	ppm	ASTM D5185(m)		<b>0</b>	<1	0
Aluminum	ppm	ASTM D5185(m)	>25	<b>&lt;1</b>	<1	<1
Lead	ppm	ASTM D5185(m)	>25	<b>0</b>	<1	<1
Copper	ppm	ASTM D5185(m)	>100	<b>8</b>	8	11
Tin	ppm	ASTM D5185(m)	>10	<b>0</b>	0	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

**CONTAMINATION**

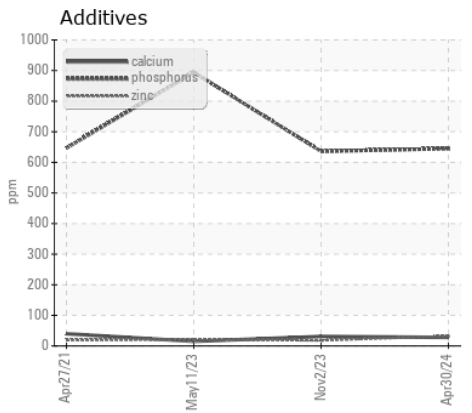
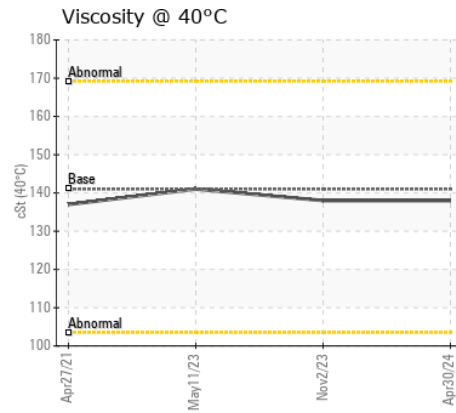
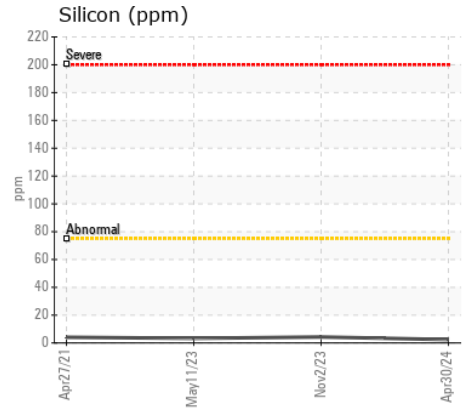
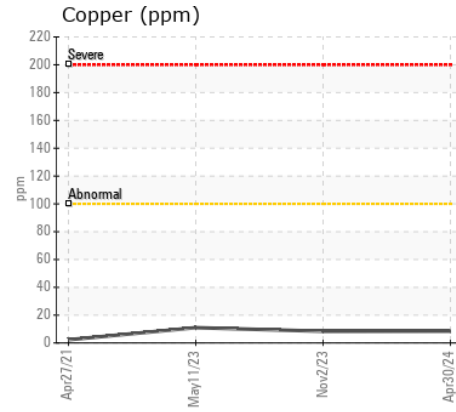
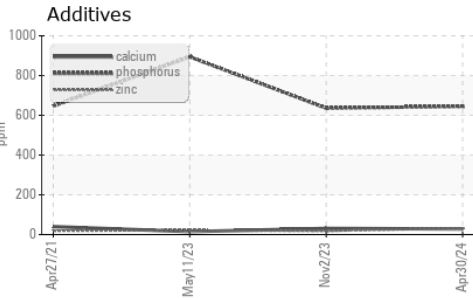
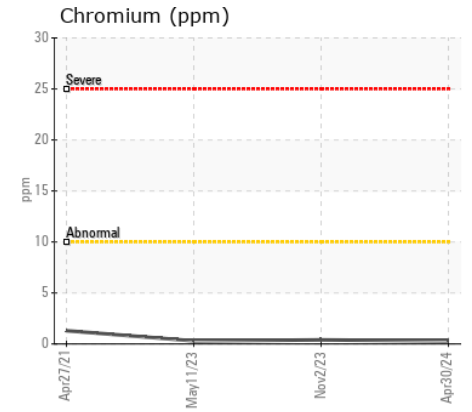
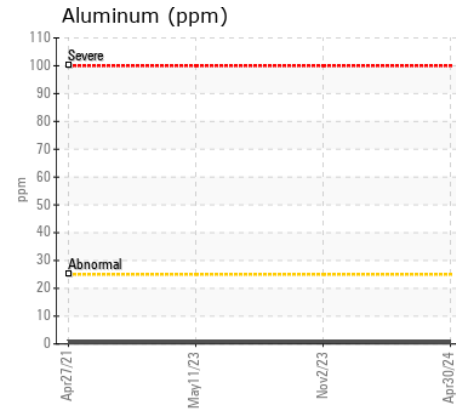
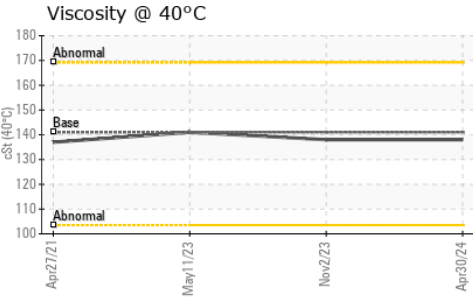
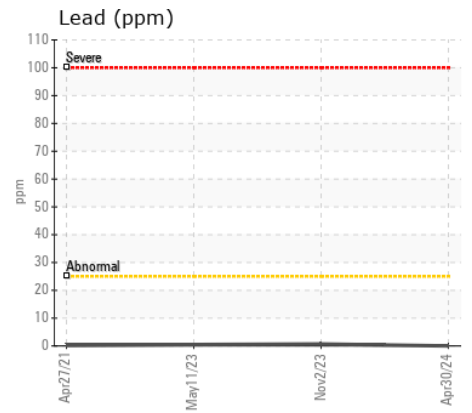
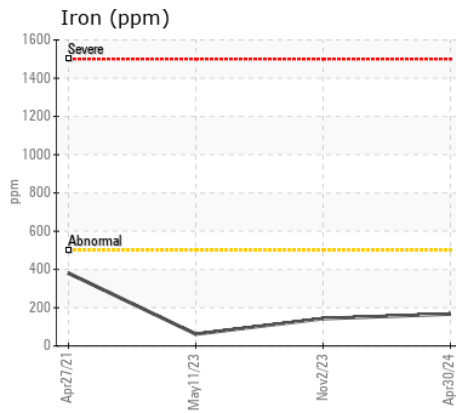
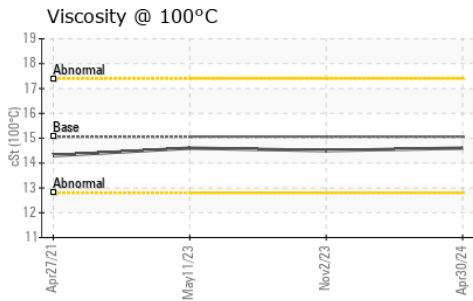
There is no indication of any contamination in the oil.

Silicon	ppm	ASTM D5185(m)	>75	<b>2</b>	4	3
Potassium	ppm	ASTM D5185(m)	>20	<b>&lt;1</b>	<1	<1
Water		WC Method	>.2	<b>NEG</b>	NEG	NEG
Silt	scalar	Visual*	NONE	<b>VLITE</b>	NONE	NONE
Debris	scalar	Visual*	NONE	<b>VLITE</b>	NONE	NONE
Sand/Dirt	scalar	Visual*	NONE	<b>NONE</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

**FLUID CONDITION**

Additive levels indicate the addition of a different brand, or type of oil.  
The condition of the oil is acceptable for the time in service.

Sodium	ppm	ASTM D5185(m)		<b>&lt;1</b>	2	<1
Boron	ppm	ASTM D5185(m)	243	<b>8</b>	6	35
Barium	ppm	ASTM D5185(m)	1	<b>4</b>	4	26
Molybdenum	ppm	ASTM D5185(m)		<b>0</b>	0	<1
Manganese	ppm	ASTM D5185(m)		<b>2</b>	1	1
Magnesium	ppm	ASTM D5185(m)	2	<b>2</b>	1	4
Calcium	ppm	ASTM D5185(m)	6	<b>28</b>	31	15
Phosphorus	ppm	ASTM D5185(m)	987	<b>645</b>	636	894
Zinc	ppm	ASTM D5185(m)	1	<b>32</b>	18	21
Sulfur	ppm	ASTM D5185(m)	21530	<b>21458</b>	22477	21876
Visc @ 40°C	cSt	ASTM D7279(m)	141.0	<b>138</b>	138	141
Visc @ 100°C	cSt	ASTM D7279(m)	15.06	<b>14.6</b>	14.5	14.6
Viscosity Index (VI)	Scale	ASTM D2270*	108	<b>105</b>	103	102



**Laboratory** : WearCheck - C8-1175 Appleby Line, Burlington, ON L7L 5H9  
**Sample No.** : PC0084669 **Received** : 29 May 2024  
**Lab Number** : 02638668 **Tested** : 30 May 2024  
**Unique Number** : 5787830 **Diagnosed** : 30 May 2024 - Wes Davis  
**Test Package** : MOB 1 ( Additional Tests: KV100, VI )

**Lakeshore Gold Timmins West**

Timmins, ON  
CA

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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.