



Area  
**Scoop 10 Yard**  
Machine Id  
**LHD1502**  
Component  
**Rear Left Final Drive**  
Fluid  
**PETRO CANADA TRAXON 80W90 (--- 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

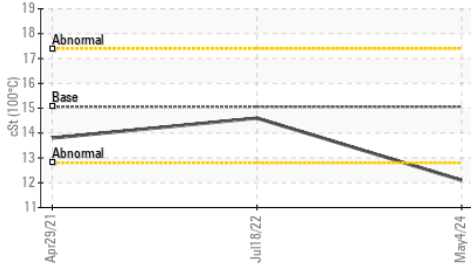
There is no indication of any contamination in the oil.

### FLUID CONDITION

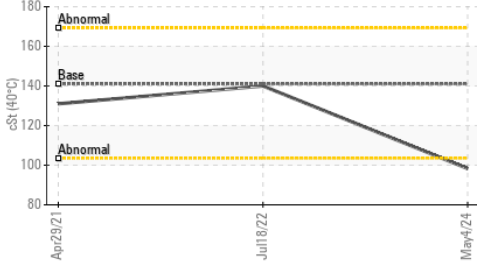
Viscosity of sample indicates oil is within SAE 75W90 range, advise investigate. This plus the additive levels indicates that this is not the same brand, or type of oil as reported. The condition of the oil is acceptable for the time in service.

Test	UOM	Method	Limit/Abn	Current	History1	History2
Sample Number		Client Info		<b>PC0048866</b>	PC0047740	PC0046786
Sample Date		Client Info		<b>04 May 2024</b>	18 Jul 2022	29 Apr 2021
Machine Age	hrs	Client Info		<b>2699</b>	6438	1958
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>	Changed	N/A
Filter Changed		Client Info		<b>N/A</b>	Changed	N/A
Sample Status				<b>ABNORMAL</b>	NORMAL	NORMAL
Iron	ppm	ASTM D5185(m)	>500	<b>200</b>	410	42
Chromium	ppm	ASTM D5185(m)	>10	<b>2</b>	4	<1
Nickel	ppm	ASTM D5185(m)	>10	<b>&lt;1</b>	<1	<1
Titanium	ppm	ASTM D5185(m)		<b>&lt;1</b>	<1	<1
Silver	ppm	ASTM D5185(m)		<b>0</b>	0	<1
Aluminum	ppm	ASTM D5185(m)	>25	<b>7</b>	4	13
Lead	ppm	ASTM D5185(m)	>25	<b>0</b>	0	2
Copper	ppm	ASTM D5185(m)	>50	<b>4</b>	2	46
Tin	ppm	ASTM D5185(m)	>10	<b>0</b>	0	<1
Vanadium	ppm	ASTM D5185(m)		<b>0</b>	0	<1
White Metal	scalar	Visual*	NONE	<b>NONE</b>	VLITE	NONE
Yellow Metal	scalar	Visual*	NONE	<b>NONE</b>	NONE	NONE
Silicon	ppm	ASTM D5185(m)	>75	<b>34</b>	19	52
Potassium	ppm	ASTM D5185(m)	>20	<b>2</b>	2	8
Water		WC Method	>0.2	<b>NEG</b>	NEG	NEG
Silt	scalar	Visual*	NONE	<b>VLITE</b>	LIGHT	LTMOD
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*	>0.2	<b>NEG</b>	NEG	NEG
Sodium	ppm	ASTM D5185(m)		<b>3</b>	3	8
Boron	ppm	ASTM D5185(m)	243	<b>160</b>	43	30
Barium	ppm	ASTM D5185(m)	1	<b>&lt;1</b>	2	<1
Molybdenum	ppm	ASTM D5185(m)		<b>0</b>	<1	<1
Manganese	ppm	ASTM D5185(m)		<b>2</b>	5	<1
Magnesium	ppm	ASTM D5185(m)	2	<b>8</b>	5	8
Calcium	ppm	ASTM D5185(m)	6	<b>1080</b>	24	29
Phosphorus	ppm	ASTM D5185(m)	987	<b>976</b>	638	534
Zinc	ppm	ASTM D5185(m)	1	<b>425</b>	12	9
Sulfur	ppm	ASTM D5185(m)	21530	<b>12851</b>	22710	22404
Visc @ 40°C	cSt	ASTM D7279(m)	141.0	<b>98.3</b>	140	131
Visc @ 100°C	cSt	ASTM D7279(m)	15.06	<b>12.1</b>	14.6	13.8
Viscosity Index (VI)	Scale	ASTM D2270*	108	<b>114</b>	103	101

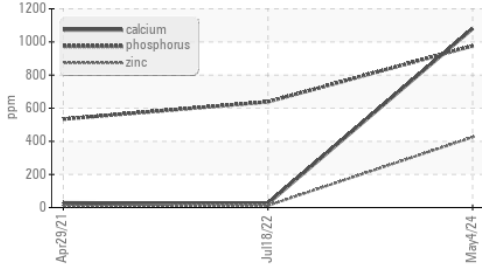
▲ Viscosity @ 100°C



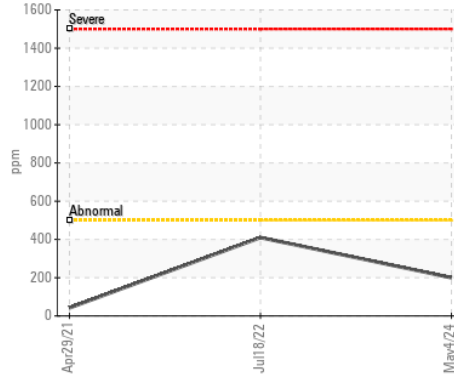
▲ Viscosity @ 40°C



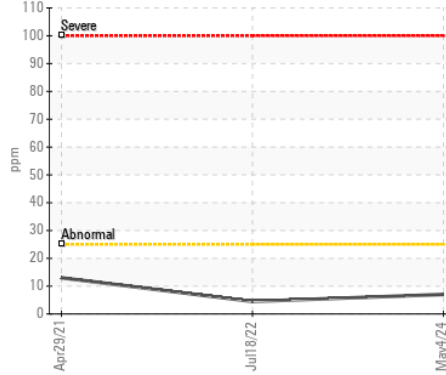
● Additives



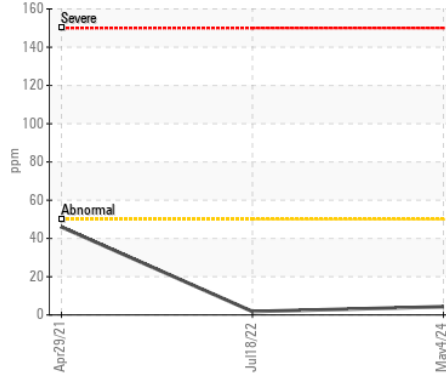
Iron (ppm)



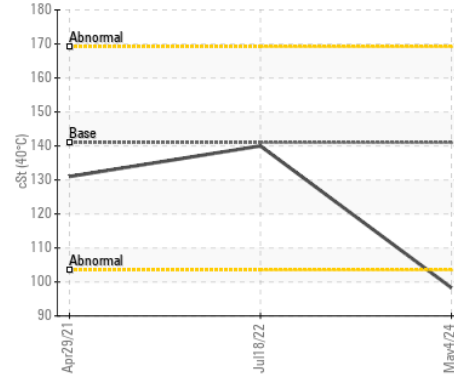
Aluminum (ppm)



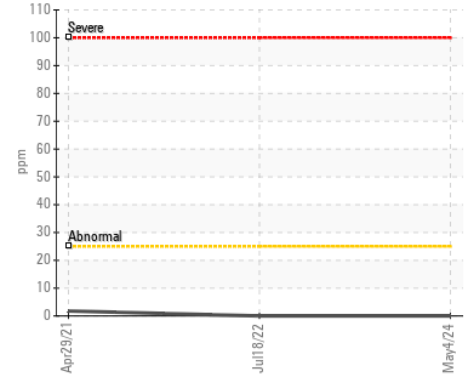
Copper (ppm)



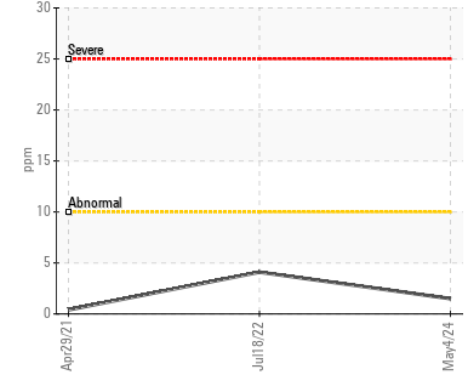
▲ Viscosity @ 40°C



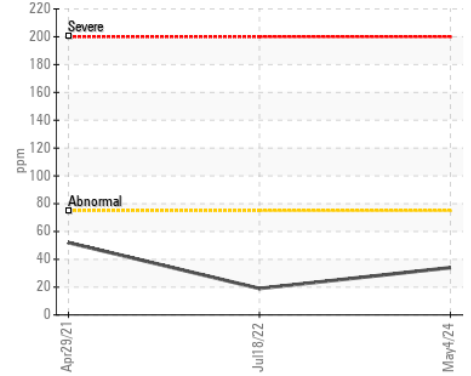
Lead (ppm)



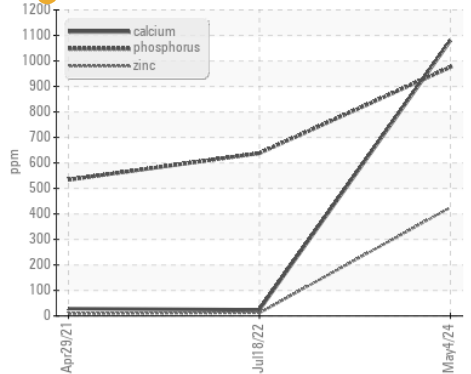
Chromium (ppm)



Silicon (ppm)



● Additives



**Laboratory** : WearCheck - C8-1175 Appleby Line, Burlington, ON L7L 5H9  
**Sample No.** : PC0048866 **Received** : 29 May 2024  
**Lab Number** : 02638669 **Tested** : 30 May 2024  
**Unique Number** : 5787831 **Diagnosed** : 31 May 2024 - Kevin Marson  
**Test Package** : MOB 1 ( Additional Tests: KV100, VI )

**Lakeshore Gold Timmins West**

Timmins, ON  
CA

Contact: Dale Arseneau  
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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.