



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



Area  
**Haul Truck**  
Machine Id  
**HT4502**  
Component  
**Transmission (Manual)**  
Fluid  
**TDH FLUID SAE 75W80 (--- LTR)**

**RECOMMENDATION**

Resample at the next service interval to monitor.

Test	UOM	Method	Limit/Abn	Current	History1	History2
Sample Number		Client Info		<b>PC0083347</b>	PC0074882	PC0048748
Sample Date		Client Info		<b>09 Feb 2024</b>	23 Nov 2023	26 Sep 2022
Machine Age	hrs	Client Info		<b>7882</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>NORMAL</b>	NORMAL	NORMAL

**WEAR**

All component wear rates are normal.

Iron	ppm	ASTM D5185(m)	>200	<b>4</b>	4	2
Chromium	ppm	ASTM D5185(m)	>5	<b>0</b>	0	0
Nickel	ppm	ASTM D5185(m)	>5	<b>0</b>	<1	<1
Titanium	ppm	ASTM D5185(m)		<b>0</b>	0	<1
Silver	ppm	ASTM D5185(m)	>7	<b>&lt;1</b>	2	0
Aluminum	ppm	ASTM D5185(m)	>25	<b>1</b>	1	2
Lead	ppm	ASTM D5185(m)	>45	<b>&lt;1</b>	1	<1
Copper	ppm	ASTM D5185(m)	>225	<b>2</b>	4	<1
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**

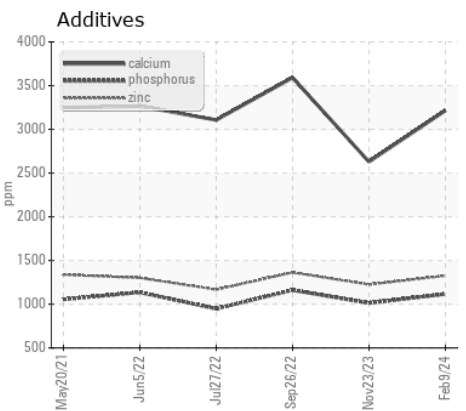
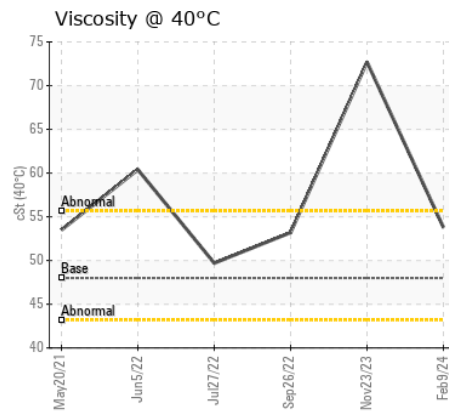
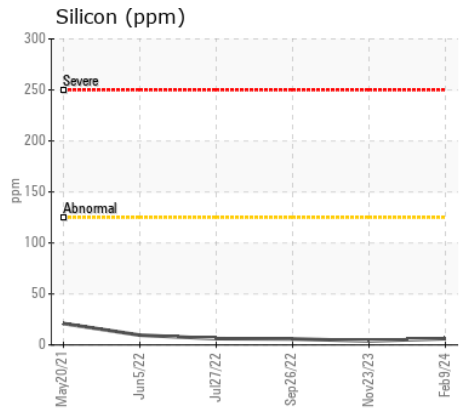
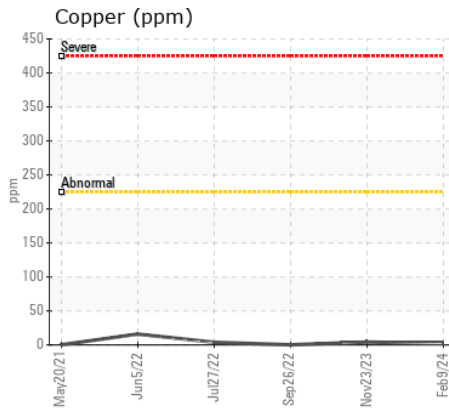
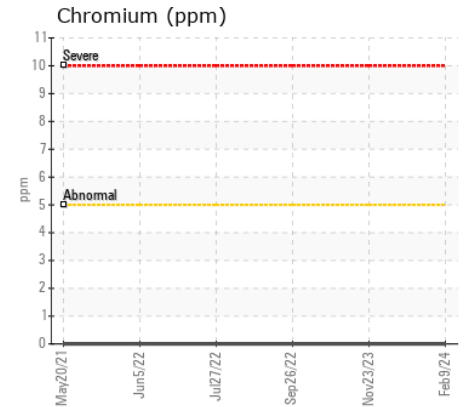
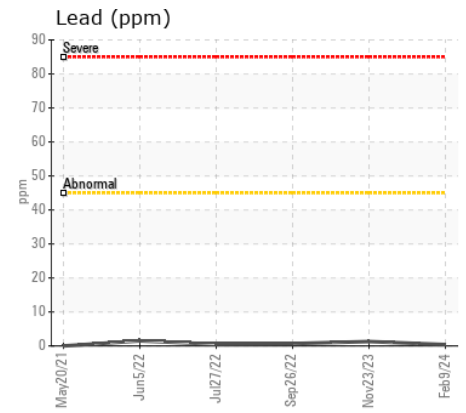
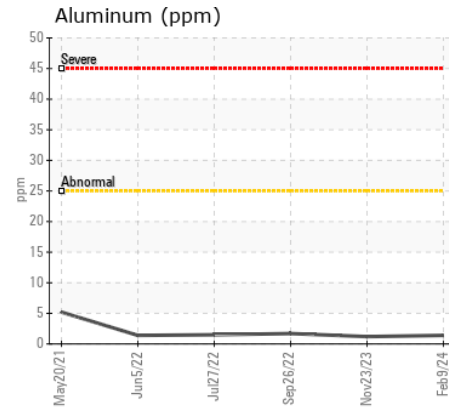
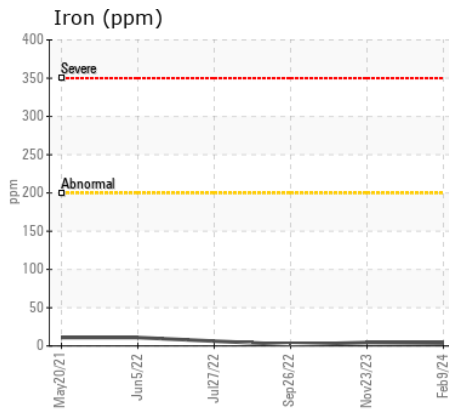
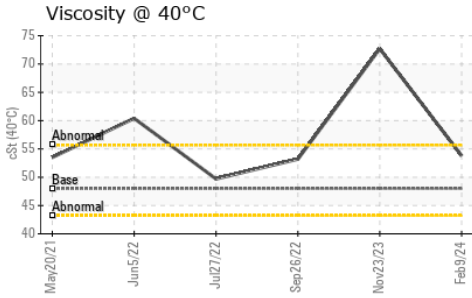
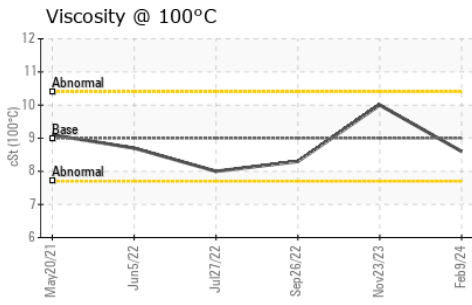
There is no indication of any contamination in the fluid.

Silicon	ppm	ASTM D5185(m)	>125	<b>6</b>	4	6
Potassium	ppm	ASTM D5185(m)	>20	<b>&lt;1</b>	<1	0
Water		WC Method	>0.1	<b>NEG</b>	NEG	NEG
Silt	scalar	Visual*	NONE	<b>NONE</b>	NONE	NONE
Debris	scalar	Visual*	NONE	<b>NONE</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*	>0.1	<b>NEG</b>	NEG	NEG

**FLUID CONDITION**

The condition of the fluid is acceptable for the time in service.

Sodium	ppm	ASTM D5185(m)		<b>&lt;1</b>	2	1
Boron	ppm	ASTM D5185(m)	10	<b>77</b>	22	102
Barium	ppm	ASTM D5185(m)	10	<b>0</b>	1	0
Molybdenum	ppm	ASTM D5185(m)	10	<b>5</b>	14	1
Manganese	ppm	ASTM D5185(m)		<b>0</b>	0	<1
Magnesium	ppm	ASTM D5185(m)	100	<b>94</b>	234	23
Calcium	ppm	ASTM D5185(m)	3500	<b>3215</b>	2629	3591
Phosphorus	ppm	ASTM D5185(m)	1150	<b>1117</b>	1014	1162
Zinc	ppm	ASTM D5185(m)	1150	<b>1326</b>	1225	1364
Sulfur	ppm	ASTM D5185(m)	3000	<b>2847</b>	3104	2736
Visc @ 40°C	cSt	ASTM D7279(m)	48	<b>53.8</b>	72.7	53.2
Visc @ 100°C	cSt	ASTM D7279(m)	9.0	<b>8.6</b>	10.0	8.3
Viscosity Index (VI)	Scale	ASTM D2270*	171	<b>135</b>	119	128



**Laboratory** : WearCheck - C8-1175 Appleby Line, Burlington, ON L7L 5H9  
**Sample No.** : PC0083347  
**Lab Number** : 02619612  
**Unique Number** : 5736722  
**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

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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.