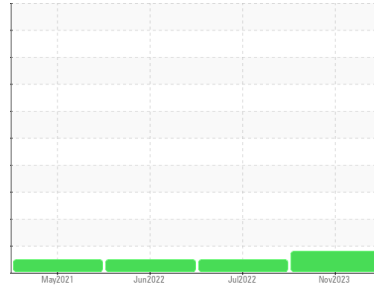


# OIL ANALYSIS REPORT



Area  
**Haul Truck**  
Machine Id  
**HT4502**  
Component  
**Front Right Planetary**  
Fluid  
**NOT GIVEN (--- LTR)**

Sample Rating Trend



## VISCOSITY



### DIAGNOSIS

**▲ Recommendation**

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 75W80 range, advise investigate. The condition of the oil is acceptable for the time in service.

### SAMPLE INFORMATION

	method	limit/base	current	history1	history2
Sample Number	Client Info		<b>PC0074879</b>	PC0048714	PC0047113
Sample Date	Client Info		<b>23 Nov 2023</b>	27 Jul 2022	06 Jun 2022
Machine Age	hrs	Client Info	<b>6729</b>	0	0
Oil Age	hrs	Client Info	<b>0</b>	0	0
Oil Changed	Client Info		<b>N/A</b>	N/A	N/A
Sample Status			<b>ABNORMAL</b>	NORMAL	NORMAL

### CONTAMINATION

	method	limit/base	current	history1	history2
Water	WC Method	>0.2	<b>NEG</b>	NEG	NEG

### WEAR METALS

	method	limit/base	current	history1	history2	
Iron	ppm	ASTM D5185(m)	>500	<b>26</b>	72	102
Chromium	ppm	ASTM D5185(m)	>10	<b>0</b>	<1	1
Nickel	ppm	ASTM D5185(m)	>10	<b>&lt;1</b>	0	<1
Titanium	ppm	ASTM D5185(m)		<b>0</b>	<1	<1
Silver	ppm	ASTM D5185(m)		<b>&lt;1</b>	0	0
Aluminum	ppm	ASTM D5185(m)	>25	<b>1</b>	3	4
Lead	ppm	ASTM D5185(m)	>25	<b>&lt;1</b>	1	1
Copper	ppm	ASTM D5185(m)	>75	<b>25</b>	33	44
Tin	ppm	ASTM D5185(m)	>10	<b>&lt;1</b>	<1	1
Antimony	ppm	ASTM D5185(m)	>5	<b>0</b>	0	0
Vanadium	ppm	ASTM D5185(m)		<b>0</b>	0	0
Beryllium	ppm	ASTM D5185(m)		<b>0</b>	0	0
Cadmium	ppm	ASTM D5185(m)		<b>0</b>	0	0

### ADDITIVES

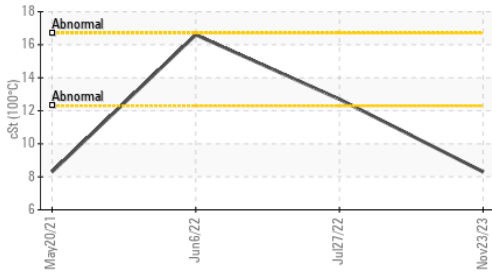
	method	limit/base	current	history1	history2	
Boron	ppm	ASTM D5185(m)		<b>82</b>	5	3
Barium	ppm	ASTM D5185(m)		<b>&lt;1</b>	0	0
Molybdenum	ppm	ASTM D5185(m)		<b>0</b>	2	2
Manganese	ppm	ASTM D5185(m)		<b>0</b>	1	1
Magnesium	ppm	ASTM D5185(m)		<b>14</b>	18	24
Calcium	ppm	ASTM D5185(m)		<b>3333</b>	2867	3015
Phosphorus	ppm	ASTM D5185(m)		<b>1061</b>	904	1089
Zinc	ppm	ASTM D5185(m)		<b>1351</b>	1120	1225
Sulfur	ppm	ASTM D5185(m)		<b>2718</b>	5010	6755
Lithium	ppm	ASTM D5185(m)		<b>&lt;1</b>	<1	<1

### CONTAMINANTS

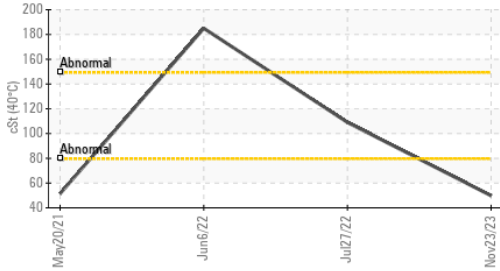
	method	limit/base	current	history1	history2	
Silicon	ppm	ASTM D5185(m)	>75	<b>11</b>	17	26
Sodium	ppm	ASTM D5185(m)		<b>&lt;1</b>	5	7
Potassium	ppm	ASTM D5185(m)	>20	<b>0</b>	18	30

# OIL ANALYSIS REPORT

▲ Viscosity @ 100°C



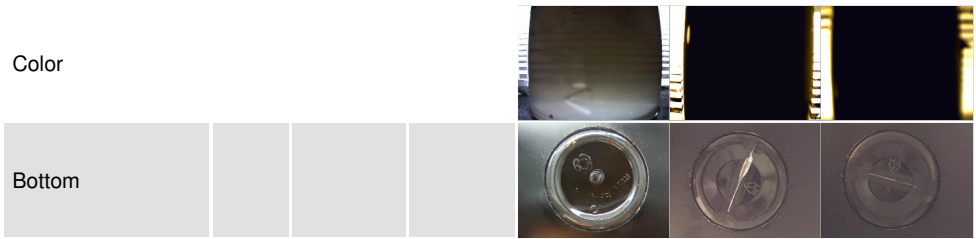
▲ Viscosity @ 40°C



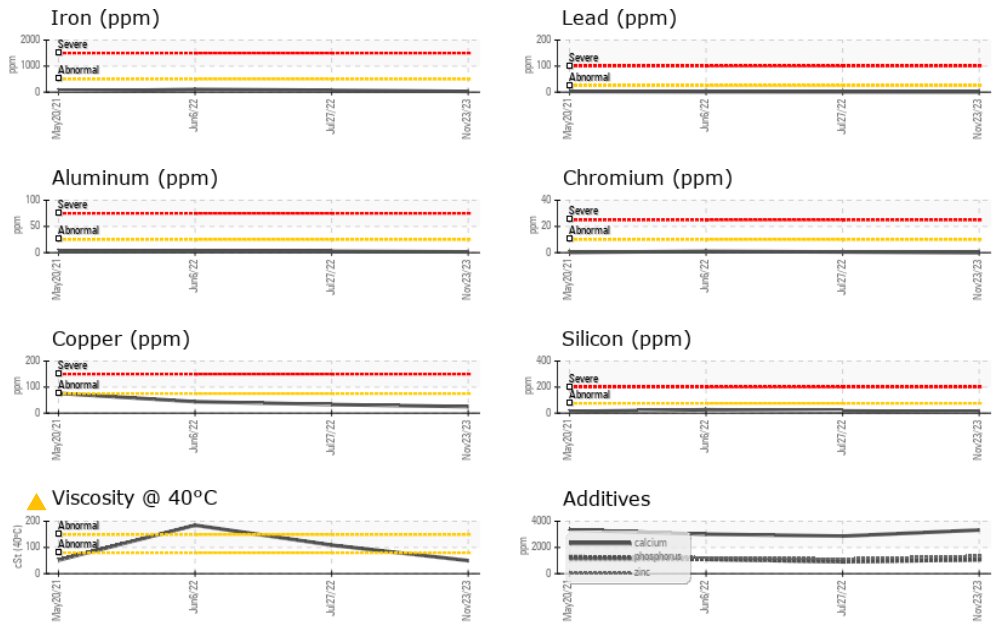
VISUAL	method	limit/base	current	history1	history2
White Metal	scalar	Visual*	NONE	NONE	NONE
Yellow Metal	scalar	Visual*	NONE	NONE	NONE
Precipitate	scalar	Visual*	NONE	NONE	NONE
Silt	scalar	Visual*	NONE	NONE	NONE
Debris	scalar	Visual*	NONE	NONE	NONE
Sand/Dirt	scalar	Visual*	NONE	NONE	NONE
Appearance	scalar	Visual*	NORML	NORML	NORML
Odor	scalar	Visual*	NORML	NORML	NORML
Emulsified Water	scalar	Visual*	>0.2	NEG	NEG
Free Water	scalar	Visual*		NEG	NEG

FLUID PROPERTIES	method	limit/base	current	history1	history2
Visc @ 40°C	cSt	ASTM D7279(m)	▲ 49.8	109	185
Visc @ 100°C	cSt	ASTM D7279(m)	▲ 8.3	12.7	16.6
Viscosity Index (VI)	Scale	ASTM D2270*	140	109	93

SAMPLE IMAGES	method	limit/base	current	history1	history2
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## GRAPHS



**Laboratory** : WearCheck - C8-1175 Appleby Line, Burlington, ON L7L 5H9  
**Sample No.** : PC0074879  
**Lab Number** : 02601300  
**Unique Number** : 5694385  
**Test Package** : MOB 1 ( Additional Tests: KV100, VI )

**Lakeshore Gold Timmins West**  
 Timmins, ON  
 CA  
 Contact: Adam Koscielak  
 adam.koscielak@HFSinclair.com  
 T:  
 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.