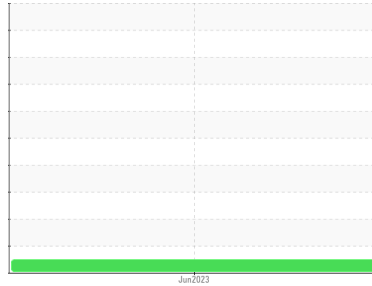




# OIL ANALYSIS REPORT

Area  
**Haul Truck**  
Machine Id  
**HT5023**  
Component  
**Diesel Engine**  
Fluid  
**DIESEL ENGINE OIL SAE 15W40 (--- LTR)**

Sample Rating Trend



**NORMAL**

**DIAGNOSIS**

**Recommendation**  
Resample at the next service interval to monitor. The fluid was not specified, however, a fluid match indicates that this fluid is (GENERIC) DIESEL ENGINE OIL SAE 15W40. Please confirm.

**Wear**  
All component wear rates are normal.

**Contamination**  
There is no indication of any contamination in the oil.

**Fluid Condition**  
The condition of the oil is acceptable for the time in service.

**SAMPLE INFORMATION** method limit/base current history 1 history 2

Sample Number	Client Info	<b>PC0050695</b>	---	---
Sample Date	Client Info	<b>04 Jun 2023</b>	---	---
Machine Age	hrs Client Info	<b>9532</b>	---	---
Oil Age	hrs Client Info	<b>0</b>	---	---
Oil Changed	Client Info	<b>N/A</b>	---	---
Sample Status		<b>NORMAL</b>	---	---

**CONTAMINATION** method limit/base current history 1 history 2

Fuel	WC Method	>5	<b>&lt;1.0</b>	---	---
Glycol	WC Method		<b>NEG</b>	---	---

**WEAR METALS** method limit/base current history 1 history 2

Iron	ppm	ASTM D5185(m)	>100	<b>38</b>	---	---
Chromium	ppm	ASTM D5185(m)	>20	<b>&lt;1</b>	---	---
Nickel	ppm	ASTM D5185(m)	>4	<b>0</b>	---	---
Titanium	ppm	ASTM D5185(m)		<b>&lt;1</b>	---	---
Silver	ppm	ASTM D5185(m)	>3	<b>0</b>	---	---
Aluminum	ppm	ASTM D5185(m)	>20	<b>1</b>	---	---
Lead	ppm	ASTM D5185(m)	>40	<b>9</b>	---	---
Copper	ppm	ASTM D5185(m)	>330	<b>2</b>	---	---
Tin	ppm	ASTM D5185(m)	>15	<b>&lt;1</b>	---	---
Antimony	ppm	ASTM D5185(m)		<b>0</b>	---	---
Vanadium	ppm	ASTM D5185(m)		<b>0</b>	---	---
Beryllium	ppm	ASTM D5185(m)		<b>0</b>	---	---
Cadmium	ppm	ASTM D5185(m)		<b>0</b>	---	---

**ADDITIVES** method limit/base current history 1 history 2

Boron	ppm	ASTM D5185(m)	250	<b>1</b>	---	---
Barium	ppm	ASTM D5185(m)	10	<b>0</b>	---	---
Molybdenum	ppm	ASTM D5185(m)	100	<b>63</b>	---	---
Manganese	ppm	ASTM D5185(m)		<b>&lt;1</b>	---	---
Magnesium	ppm	ASTM D5185(m)	450	<b>1037</b>	---	---
Calcium	ppm	ASTM D5185(m)	3000	<b>1117</b>	---	---
Phosphorus	ppm	ASTM D5185(m)	1150	<b>1076</b>	---	---
Zinc	ppm	ASTM D5185(m)	1350	<b>1231</b>	---	---
Sulfur	ppm	ASTM D5185(m)	4250	<b>2477</b>	---	---
Lithium	ppm	ASTM D5185(m)		<b>&lt;1</b>	---	---

**CONTAMINANTS** method limit/base current history 1 history 2

Silicon	ppm	ASTM D5185(m)	>25	<b>4</b>	---	---
Sodium	ppm	ASTM D5185(m)	>158	<b>2</b>	---	---
Potassium	ppm	ASTM D5185(m)	>20	<b>&lt;1</b>	---	---

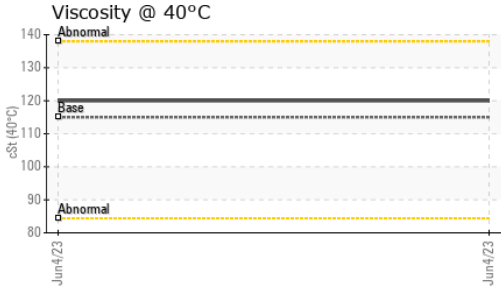
**INFRA-RED** method limit/base current history 1 history 2

Soot %	%	ASTM D7844*	>3	<b>2.1</b>	---	---
Nitration	Abs/cm	ASTM D7624*	>20	<b>9.0</b>	---	---
Sulfation	Abs/.1mm	ASTM D7415*	>30	<b>23.8</b>	---	---

**FLUID DEGRADATION** method limit/base current history 1 history 2

Oxidation	Abs/.1mm	ASTM D7414*	>25	<b>16.0</b>	---	---
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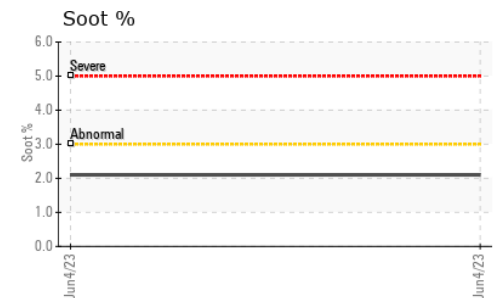
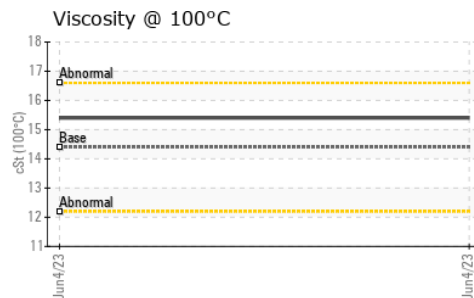
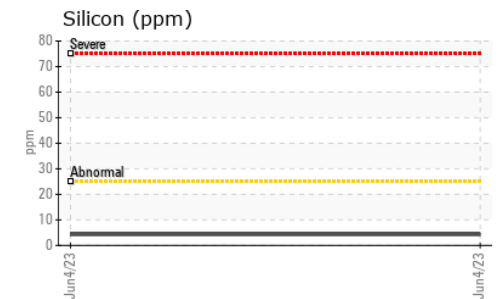
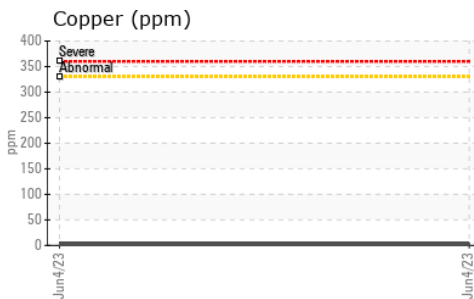
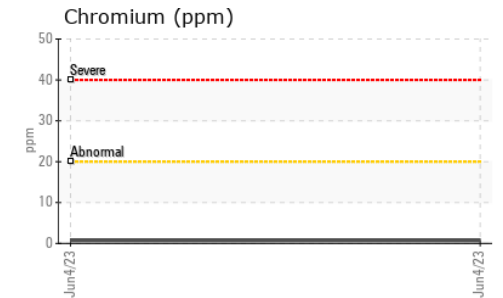
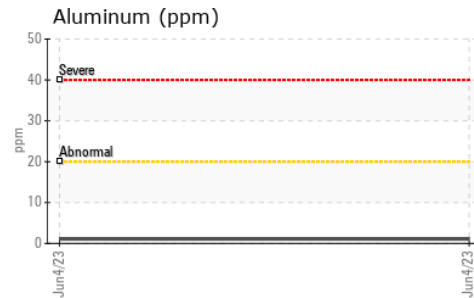
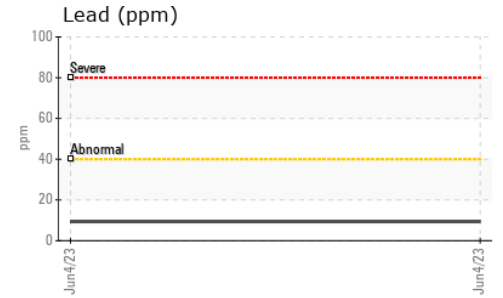
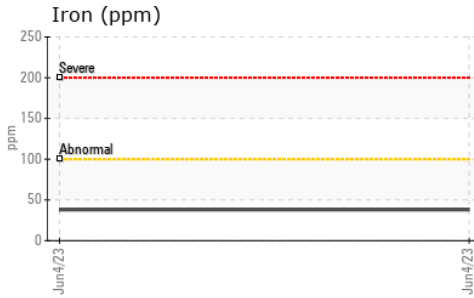
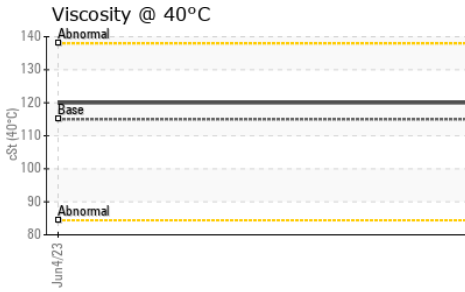
# OIL ANALYSIS REPORT



VISUAL		method	limit/base	current	history 1	history 2
Emulsified Water	scalar	Visual*	>0.2	<b>NEG</b>	---	---
Free Water	scalar	Visual*		<b>NEG</b>	---	---

FLUID PROPERTIES		method	limit/base	current	history 1	history 2
Visc @ 40°C	cSt	ASTM D7279(m)	115	<b>120</b>	---	---
Visc @ 100°C	cSt	ASTM D7279(m)	14.4	<b>15.4</b>	---	---
Viscosity Index (VI)	Scale	ASTM D2270*	126	<b>134</b>	---	---

## GRAPHS



**Laboratory** : WearCheck - C8-1175 Appleby Line, Burlington, ON L7L 5H9  
**Sample No.** : PC0050695 **Received** : 04 Jul 2023  
**Lab Number** : **02567677** **Diagnosed** : 04 Jul 2023  
**Unique Number** : 5604723 **Diagnostician** : Wes Davis  
**Test Package** : MOB 1 ( Additional Tests: KV40, 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.