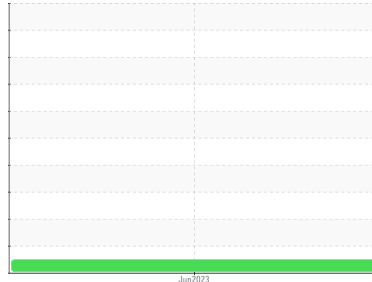




OIL ANALYSIS REPORT

Area
Haul Truck
Machine Id
HT5023
Component
Drop Box
Fluid
GEAR OIL SAE 80W90 (--- GAL)

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) GEAR OIL SAE 80W90. 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	PC0050697	---	---
Sample Date	Client Info	04 Jun 2023	---	---
Machine Age	hrs Client Info	9532	---	---
Oil Age	hrs Client Info	0	---	---
Oil Changed	Client Info	N/A	---	---
Sample Status		NORMAL	---	---

WEAR METALS method limit/base current history 1 history 2

Iron	ppm	ASTM D5185(m)	>400	20	---	---
Chromium	ppm	ASTM D5185(m)	>4	0	---	---
Nickel	ppm	ASTM D5185(m)	>3	<1	---	---
Titanium	ppm	ASTM D5185(m)		0	---	---
Silver	ppm	ASTM D5185(m)		0	---	---
Aluminum	ppm	ASTM D5185(m)	>15	2	---	---
Lead	ppm	ASTM D5185(m)	>20	<1	---	---
Copper	ppm	ASTM D5185(m)	>50	5	---	---
Tin	ppm	ASTM D5185(m)	>3	0	---	---
Antimony	ppm	ASTM D5185(m)	>5	0	---	---
Vanadium	ppm	ASTM D5185(m)		0	---	---
Beryllium	ppm	ASTM D5185(m)		0	---	---
Cadmium	ppm	ASTM D5185(m)		0	---	---

ADDITIVES method limit/base current history 1 history 2

Boron	ppm	ASTM D5185(m)	400	10	---	---
Barium	ppm	ASTM D5185(m)	200	0	---	---
Molybdenum	ppm	ASTM D5185(m)	12	0	---	---
Manganese	ppm	ASTM D5185(m)		<1	---	---
Magnesium	ppm	ASTM D5185(m)	12	6	---	---
Calcium	ppm	ASTM D5185(m)	150	23	---	---
Phosphorus	ppm	ASTM D5185(m)	1650	621	---	---
Zinc	ppm	ASTM D5185(m)	125	41	---	---
Sulfur	ppm	ASTM D5185(m)	22500	19617	---	---
Lithium	ppm	ASTM D5185(m)		<1	---	---

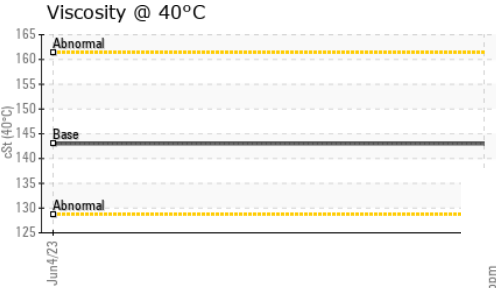
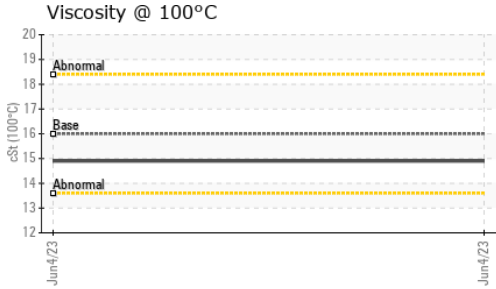
CONTAMINANTS method limit/base current history 1 history 2

Silicon	ppm	ASTM D5185(m)	>60	5	---	---
Sodium	ppm	ASTM D5185(m)	>170	6	---	---
Potassium	ppm	ASTM D5185(m)	>20	2	---	---

VISUAL method limit/base current history 1 history 2

White Metal	scalar	Visual*	NONE	NONE	---	---
Yellow Metal	scalar	Visual*	NONE	NONE	---	---
Precipitate	scalar	Visual*	NONE	NONE	---	---
Silt	scalar	Visual*	NONE	NONE	---	---
Debris	scalar	Visual*	NONE	NONE	---	---
Sand/Dirt	scalar	Visual*	NONE	NONE	---	---
Appearance	scalar	Visual*	NORML	NORML	---	---
Odor	scalar	Visual*	NORML	NORML	---	---
Emulsified Water	scalar	Visual*	>0.2	NEG	---	---
Free Water	scalar	Visual*		NEG	---	---

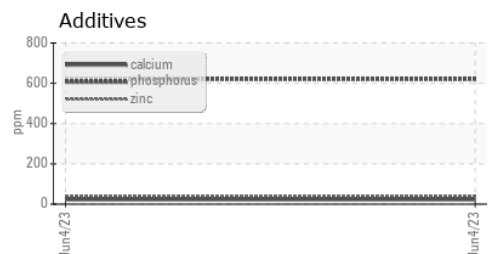
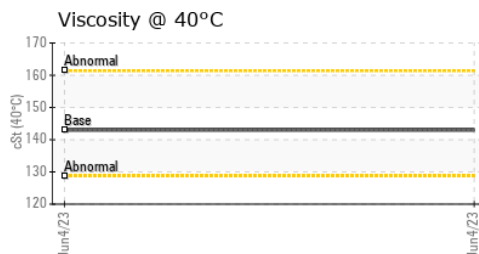
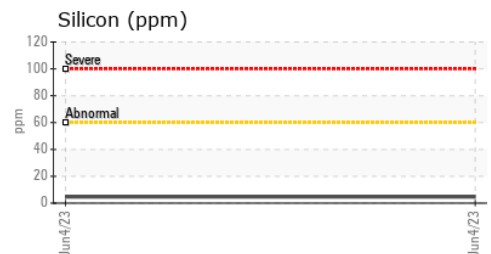
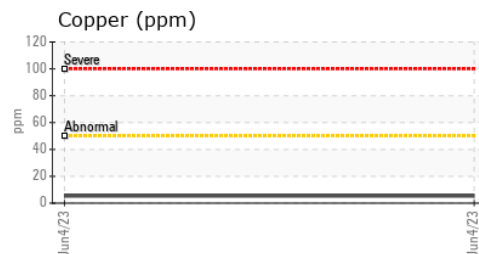
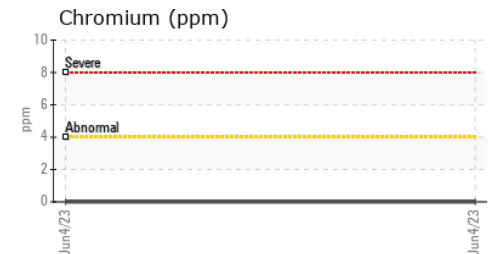
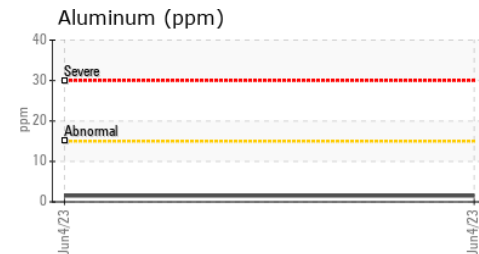
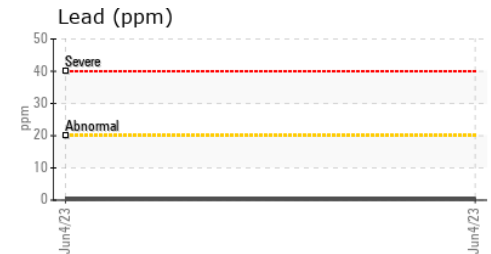
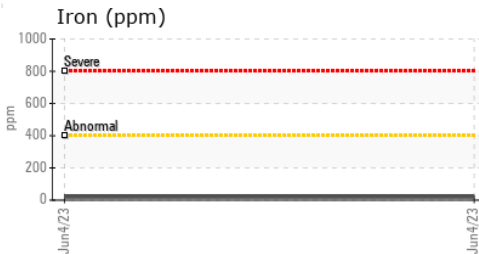
OIL ANALYSIS REPORT



FLUID PROPERTIES		method	limit/base	current	history 1	history 2
Visc @ 40°C	cSt	ASTM D7279(m)	143	143	---	---
Visc @ 100°C	cSt	ASTM D7279(m)	16.0	14.9	---	---
Viscosity Index (VI)	Scale	ASTM D2270*	117	104	---	---

SAMPLE IMAGES		method	limit/base	current	history 1	history 2
Color					no image	no image
Bottom					no image	no image

GRAPHS



Laboratory : WearCheck - C8-1175 Appleby Line, Burlington, ON L7L 5H9
Sample No. : PC0050697 **Received** : 04 Jul 2023
Lab Number : **02567835** **Diagnosed** : 04 Jul 2023
Unique Number : 5604881 **Diagnostician** : Wes Davis
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.