



WEAR	NORMAL
CONTAMINATION	NORMAL
FLUID CONDITION	NORMAL



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

RECOMMENDATION

Resample at the next service interval to monitor. Please specify the brand, type, and viscosity of the oil on your next sample.

WEAR

All component wear rates are normal.

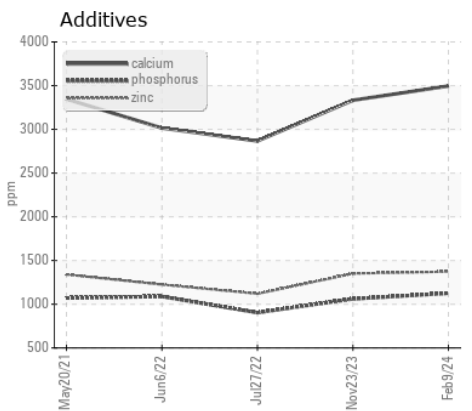
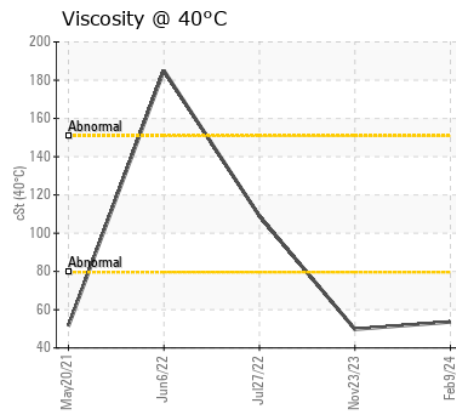
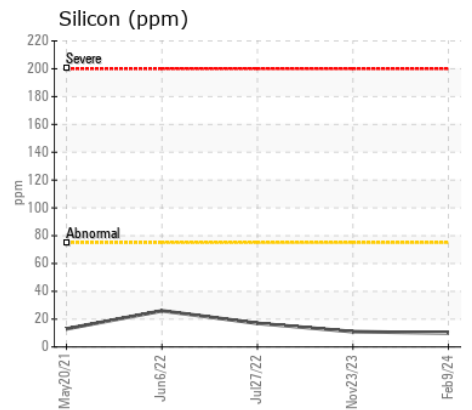
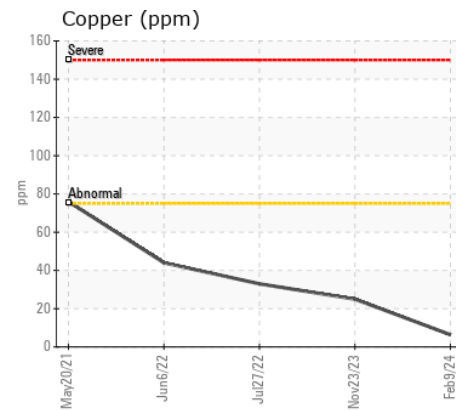
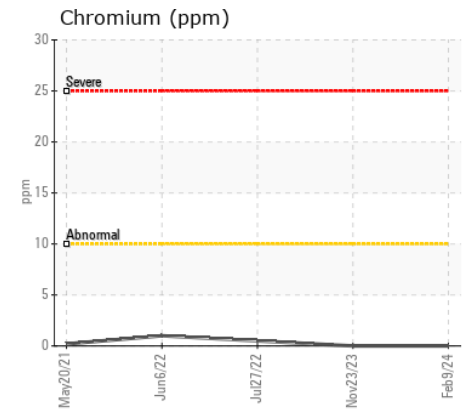
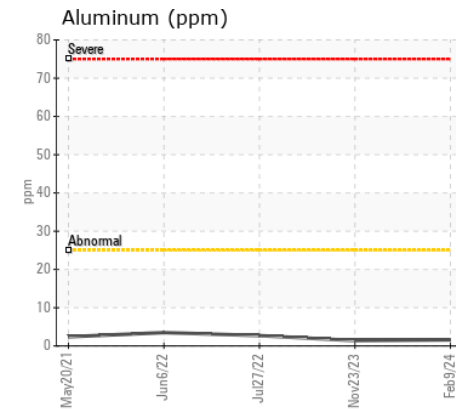
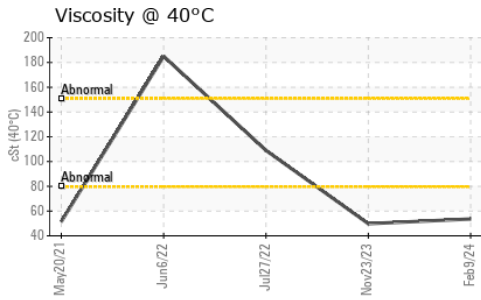
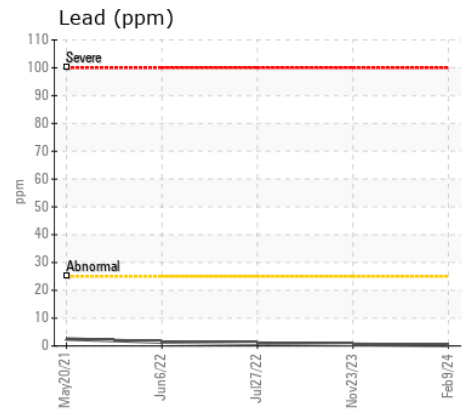
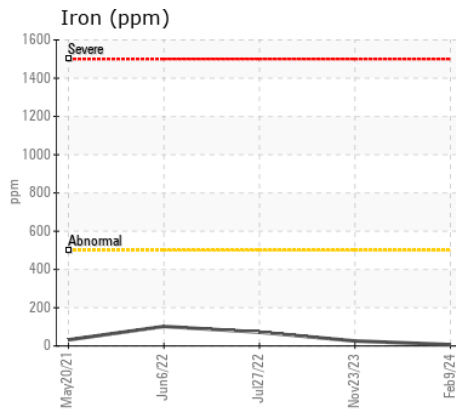
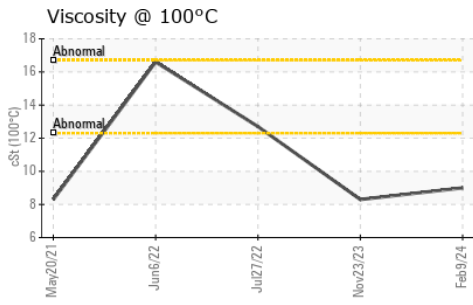
CONTAMINATION

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.

Test	UOM	Method	Limit/Abn	Current	History1	History2
Sample Number		Client Info		PC0083350	PC0074879	PC0048714
Sample Date		Client Info		09 Feb 2024	23 Nov 2023	27 Jul 2022
Machine Age	hrs	Client Info		7885	6729	0
Oil Age	hrs	Client Info		0	0	0
Filter Age	hrs	Client Info		0	0	0
Oil Changed		Client Info		N/A	N/A	N/A
Filter Changed		Client Info		N/A	N/A	N/A
Sample Status				NORMAL	ABNORMAL	NORMAL
Iron	ppm	ASTM D5185(m)	>500	7	26	72
Chromium	ppm	ASTM D5185(m)	>10	0	0	<1
Nickel	ppm	ASTM D5185(m)	>10	0	<1	0
Titanium	ppm	ASTM D5185(m)		0	0	<1
Silver	ppm	ASTM D5185(m)		0	<1	0
Aluminum	ppm	ASTM D5185(m)	>25	2	1	3
Lead	ppm	ASTM D5185(m)	>25	<1	<1	1
Copper	ppm	ASTM D5185(m)	>75	6	25	33
Tin	ppm	ASTM D5185(m)	>10	0	<1	<1
Vanadium	ppm	ASTM D5185(m)		0	0	0
White Metal	scalar	Visual*	NONE	NONE	NONE	NONE
Yellow Metal	scalar	Visual*	NONE	VLITE	NONE	NONE
Silicon	ppm	ASTM D5185(m)	>75	10	11	17
Potassium	ppm	ASTM D5185(m)	>20	<1	0	18
Water		WC Method	>0.2	NEG	NEG	NEG
Silt	scalar	Visual*	NONE	NONE	NONE	NONE
Debris	scalar	Visual*	NONE	NONE	VLITE	NONE
Sand/Dirt	scalar	Visual*	NONE	NONE	NONE	NONE
Appearance	scalar	Visual*	NORML	NORML	NORML	NORML
Odor	scalar	Visual*	NORML	NORML	NORML	NORML
Emulsified Water	scalar	Visual*	>0.2	NEG	NEG	NEG
Sodium	ppm	ASTM D5185(m)		0	<1	5
Boron	ppm	ASTM D5185(m)		95	82	5
Barium	ppm	ASTM D5185(m)		0	<1	0
Molybdenum	ppm	ASTM D5185(m)		0	0	2
Manganese	ppm	ASTM D5185(m)		0	0	1
Magnesium	ppm	ASTM D5185(m)		16	14	18
Calcium	ppm	ASTM D5185(m)		3496	3333	2867
Phosphorus	ppm	ASTM D5185(m)		1126	1061	904
Zinc	ppm	ASTM D5185(m)		1373	1351	1120
Sulfur	ppm	ASTM D5185(m)		2837	2718	5010
Visc @ 40°C	cSt	ASTM D7279(m)		53.6	▲ 49.8	109
Visc @ 100°C	cSt	ASTM D7279(m)		9.0	▲ 8.3	12.7
Viscosity Index (VI)	Scale	ASTM D2270*		148	140	109



ISO 17025:2017
Accredited
Laboratory

Laboratory : WearCheck - C8-1175 Appleby Line, Burlington, ON L7L 5H9
Sample No. : PC0083350
Lab Number : 02619632
Unique Number : 5736742
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

Contact: Dale Arseneau
darseneau@ca.panamericansilver.com

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.