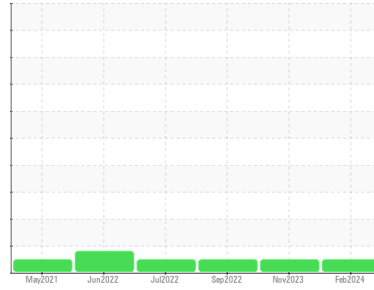


OIL ANALYSIS REPORT



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

Sample Rating Trend



NORMAL



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 fluid.

Fluid Condition

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

SAMPLE INFORMATION

method	limit/base	current	history1	history2	
Sample Number	Client Info	PC0083347	PC0074882	PC0048748	
Sample Date	Client Info	09 Feb 2024	23 Nov 2023	26 Sep 2022	
Machine Age	hrs	Client Info	7882	6729	1944
Oil Age	hrs	Client Info	0	0	0
Oil Changed	Client Info	N/A	N/A	N/A	
Sample Status		NORMAL	NORMAL	NORMAL	

CONTAMINATION

method	limit/base	current	history1	history2
Water	WC Method >0.1	NEG	NEG	NEG

WEAR METALS

method	limit/base	current	history1	history2	
Iron	ppm	ASTM D5185(m) >200	4	4	2
Chromium	ppm	ASTM D5185(m) >5	0	0	0
Nickel	ppm	ASTM D5185(m) >5	0	<1	<1
Titanium	ppm	ASTM D5185(m)	0	0	<1
Silver	ppm	ASTM D5185(m) >7	<1	2	0
Aluminum	ppm	ASTM D5185(m) >25	1	1	2
Lead	ppm	ASTM D5185(m) >45	<1	1	<1
Copper	ppm	ASTM D5185(m) >225	2	4	<1
Tin	ppm	ASTM D5185(m) >10	0	0	0
Antimony	ppm	ASTM D5185(m)	0	0	0
Vanadium	ppm	ASTM D5185(m)	0	0	0
Beryllium	ppm	ASTM D5185(m)	0	0	0
Cadmium	ppm	ASTM D5185(m)	0	0	0

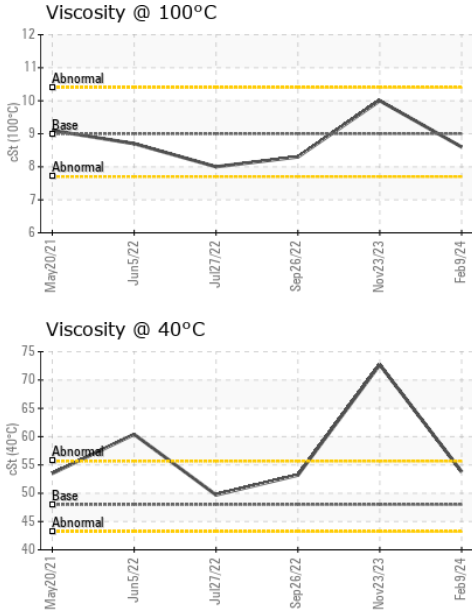
ADDITIVES

method	limit/base	current	history1	history2	
Boron	ppm	ASTM D5185(m) 10	77	22	102
Barium	ppm	ASTM D5185(m) 10	0	1	0
Molybdenum	ppm	ASTM D5185(m) 10	5	14	1
Manganese	ppm	ASTM D5185(m)	0	0	<1
Magnesium	ppm	ASTM D5185(m) 100	94	234	23
Calcium	ppm	ASTM D5185(m) 3500	3215	2629	3591
Phosphorus	ppm	ASTM D5185(m) 1150	1117	1014	1162
Zinc	ppm	ASTM D5185(m) 1150	1326	1225	1364
Sulfur	ppm	ASTM D5185(m) 3000	2847	3104	2736
Lithium	ppm	ASTM D5185(m)	<1	<1	<1

CONTAMINANTS

method	limit/base	current	history1	history2	
Silicon	ppm	ASTM D5185(m) >125	6	4	6
Sodium	ppm	ASTM D5185(m)	<1	2	1
Potassium	ppm	ASTM D5185(m) >20	<1	<1	0

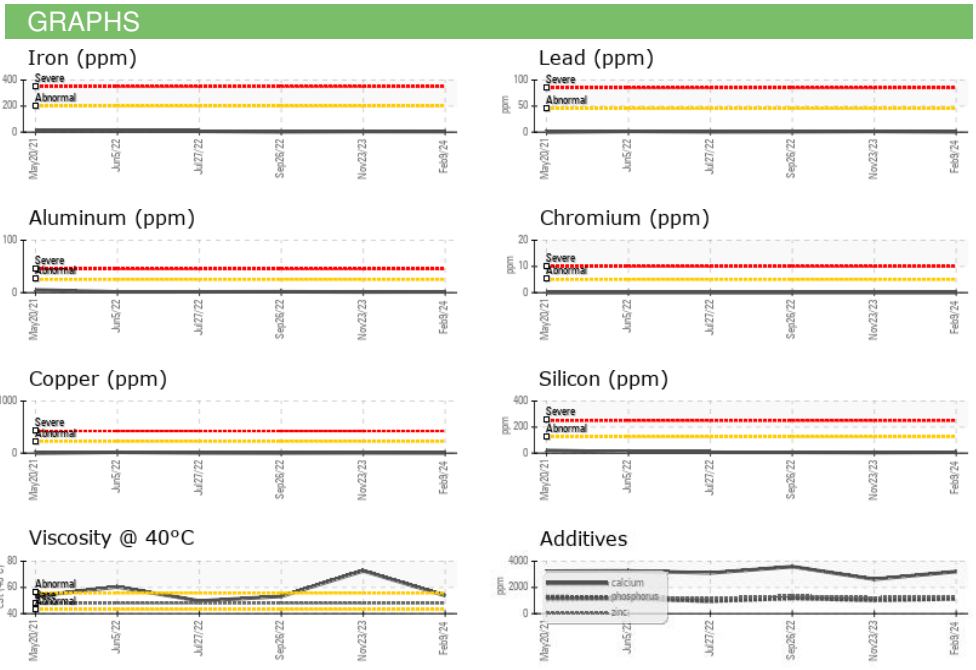
OIL ANALYSIS REPORT



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*	>0.1	NEG	NEG
Free Water	scalar	Visual*		NEG	NEG

FLUID PROPERTIES	method	limit/base	current	history1	history2
Visc @ 40°C	cSt	ASTM D7279(m)	48	53.8	72.7
Visc @ 100°C	cSt	ASTM D7279(m)	9.0	8.6	10.0
Viscosity Index (VI)	Scale	ASTM D2270*	171	135	119

SAMPLE IMAGES	method	limit/base	current	history1	history2
Color					
Bottom					



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)

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.