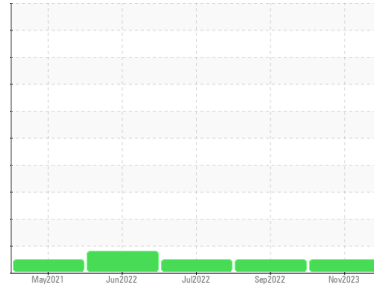


OIL ANALYSIS REPORT



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
Viscosity of sample indicates oil is within SAE 10W30 range, advise investigate. The condition of the fluid is acceptable for the time in service.

SAMPLE INFORMATION

	method	limit/base	current	history1	history2
Sample Number	Client Info		PC0074882	PC0048748	PC0048869
Sample Date	Client Info		23 Nov 2023	26 Sep 2022	27 Jul 2022
Machine Age	hrs	Client Info	6729	1944	0
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	2	6
Chromium	ppm	ASTM D5185(m) >5	0	0	0
Nickel	ppm	ASTM D5185(m) >5	<1	<1	0
Titanium	ppm	ASTM D5185(m)	0	<1	<1
Silver	ppm	ASTM D5185(m) >7	2	0	0
Aluminum	ppm	ASTM D5185(m) >25	1	2	2
Lead	ppm	ASTM D5185(m) >45	1	<1	<1
Copper	ppm	ASTM D5185(m) >225	4	<1	4
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

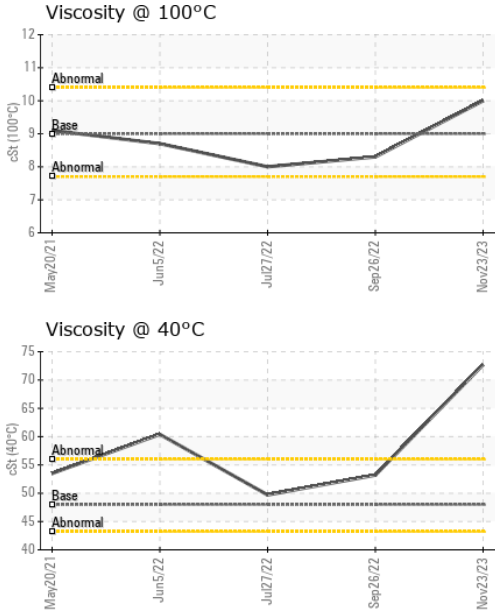
ADDITIVES

	method	limit/base	current	history1	history2
Boron	ppm	ASTM D5185(m) 10	22	102	39
Barium	ppm	ASTM D5185(m) 10	1	0	0
Molybdenum	ppm	ASTM D5185(m) 10	14	1	<1
Manganese	ppm	ASTM D5185(m)	0	<1	<1
Magnesium	ppm	ASTM D5185(m) 100	234	23	16
Calcium	ppm	ASTM D5185(m) 3500	2629	3591	3107
Phosphorus	ppm	ASTM D5185(m) 1150	1014	1162	948
Zinc	ppm	ASTM D5185(m) 1150	1225	1364	1167
Sulfur	ppm	ASTM D5185(m) 5000	3104	2736	2633
Lithium	ppm	ASTM D5185(m)	<1	<1	<1

CONTAMINANTS

	method	limit/base	current	history1	history2
Silicon	ppm	ASTM D5185(m) >125	4	6	6
Sodium	ppm	ASTM D5185(m)	2	1	1
Potassium	ppm	ASTM D5185(m) >20	<1	0	3

OIL ANALYSIS REPORT

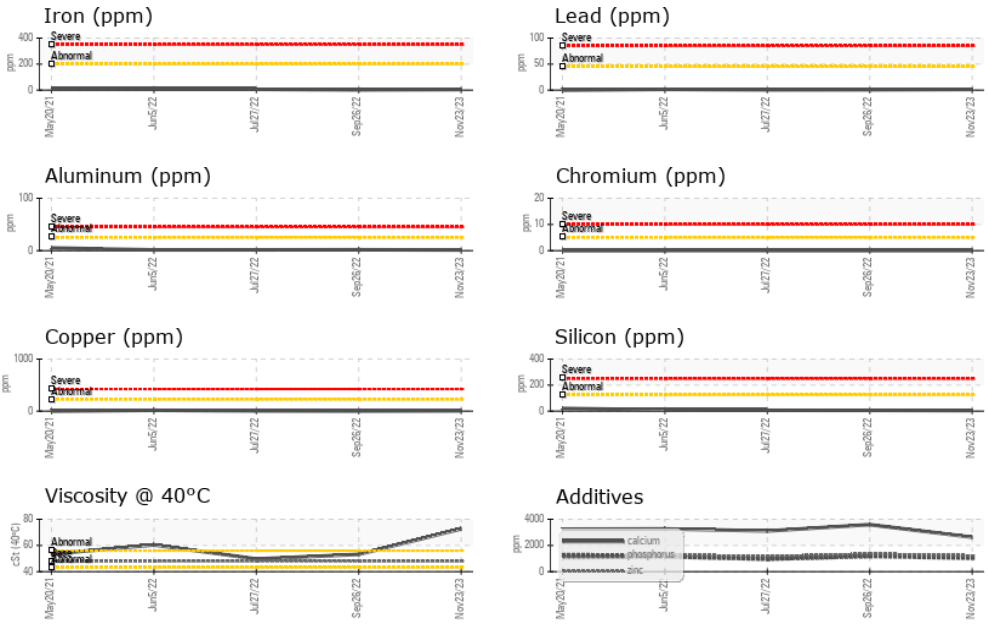


VISUAL	method	limit/base	current	history1	history2
White Metal	scalar	Visual*	NONE	NONE	VLITE
Yellow Metal	scalar	Visual*	NONE	NONE	NONE
Precipitate	scalar	Visual*	NONE	NONE	NONE
Silt	scalar	Visual*	NONE	NONE	NONE
Debris	scalar	Visual*	NONE	NONE	NONE
Sand/Dirt	scalar	Visual*	NONE	NONE	VLITE
Appearance	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	72.7	53.2	49.7
Visc @ 100°C	cSt	ASTM D7279(m)	9.0	10.0	8.3	8
Viscosity Index (VI)	Scale	ASTM D2270*	171	119	128	131

SAMPLE IMAGES	method	limit/base	current	history1	history2
Color					
Bottom					

GRAPHS



Laboratory : WearCheck - C8-1175 Appleby Line, Burlington, ON L7L 5H9
Sample No. : PC0074882 **Received** : 06 Dec 2023
Lab Number : 02601267 **Diagnosed** : 07 Dec 2023
Unique Number : 5694352 **Diagnostician** : Bill Quesnel
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.