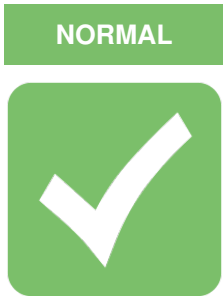
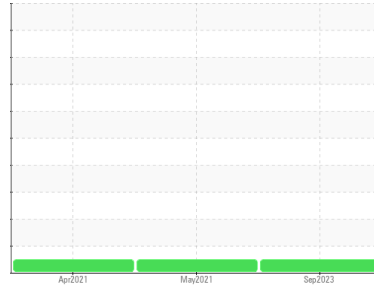




OIL ANALYSIS REPORT

Area
Haul Truck
Machine Id
HT5028
Component
Rear Differential
Fluid
PETRO CANADA TRAXON 85W140 (59 LTR)

Sample Rating Trend



DIAGNOSIS

Recommendation
Confirm the source of the lubricant being utilized for top-up/fill. 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 oil.

Fluid Condition
Additive levels indicate the addition of a different brand, or type of oil. The condition of the oil is acceptable for the time in service.

SAMPLE INFORMATION

	method	limit/base	current	history1	history2
Sample Number	Client Info		PC0075060	PC0046688	PC0046605
Sample Date	Client Info		19 Sep 2023	31 May 2021	27 Apr 2021
Machine Age	hrs	Client Info	6528	0	0
Oil Age	hrs	Client Info	0	0	0
Oil Changed	Client Info		N/A	N/A	N/A
Sample Status			NORMAL	NORMAL	NORMAL

WEAR METALS

	method	limit/base	current	history1	history2
Iron	ppm	ASTM D5185(m) >500	139	168	129
Chromium	ppm	ASTM D5185(m) >10	1	1	1
Nickel	ppm	ASTM D5185(m) >10	<1	<1	<1
Titanium	ppm	ASTM D5185(m)	0	<1	<1
Silver	ppm	ASTM D5185(m)	0	<1	<1
Aluminum	ppm	ASTM D5185(m) >25	<1	1	2
Lead	ppm	ASTM D5185(m) >25	0	<1	<1
Copper	ppm	ASTM D5185(m) >100	3	6	6
Tin	ppm	ASTM D5185(m) >10	0	<1	0
Antimony	ppm	ASTM D5185(m) >5	0	0	<1
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) 243	9	48	47
Barium	ppm	ASTM D5185(m) 0	1	<1	<1
Molybdenum	ppm	ASTM D5185(m)	<1	<1	<1
Manganese	ppm	ASTM D5185(m)	2	2	1
Magnesium	ppm	ASTM D5185(m) 0	<1	1	2
Calcium	ppm	ASTM D5185(m) 0	19	27	29
Phosphorus	ppm	ASTM D5185(m) 988	636	656	645
Zinc	ppm	ASTM D5185(m) 0	14	15	15
Sulfur	ppm	ASTM D5185(m) 24530	21200	20213	19969
Lithium	ppm	ASTM D5185(m)	<1	<1	<1

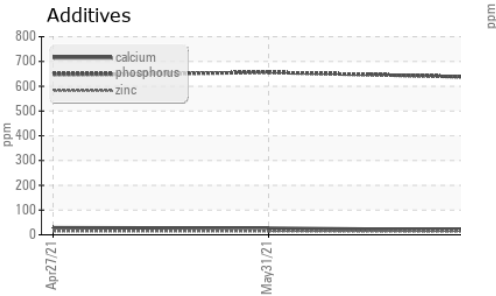
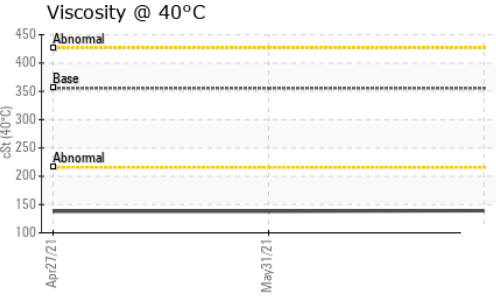
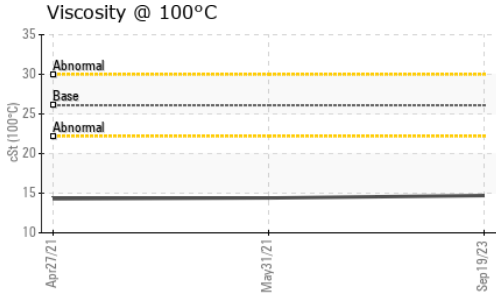
CONTAMINANTS

	method	limit/base	current	history1	history2
Silicon	ppm	ASTM D5185(m) >75	3	6	9
Sodium	ppm	ASTM D5185(m)	<1	2	2
Potassium	ppm	ASTM D5185(m) >20	0	3	3

VISUAL

	method	limit/base	current	history1	history2
White Metal	scalar	Visual* NONE	NONE	LIGHT	LIGHT
Yellow Metal	scalar	Visual* NONE	NONE	NONE	NONE
Precipitate	scalar	Visual* NONE	NONE	NONE	NONE
Silt	scalar	Visual* NONE	NONE	VLITE	VLITE
Debris	scalar	Visual* NONE	NONE	NONE	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* >.2	NEG	NEG	NEG
Free Water	scalar	Visual*	NEG	NEG	NEG

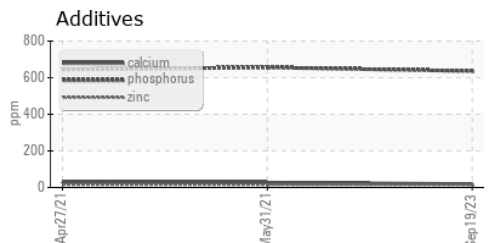
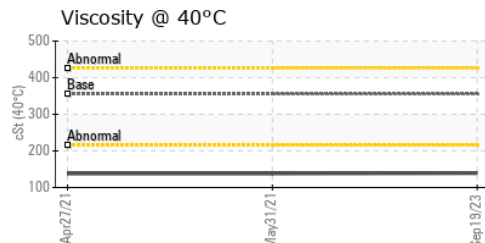
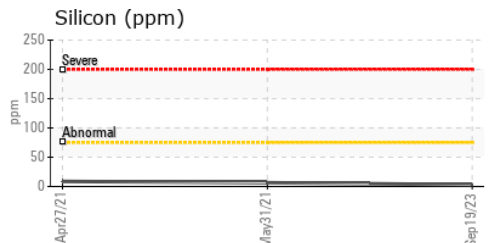
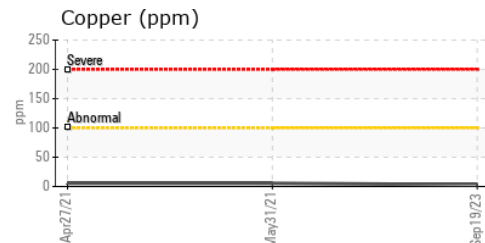
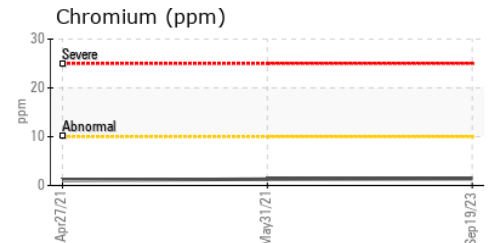
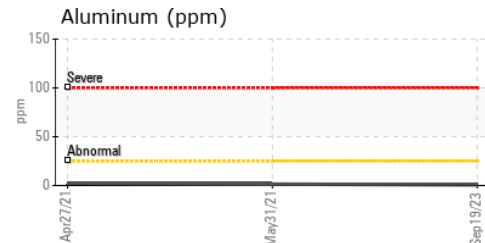
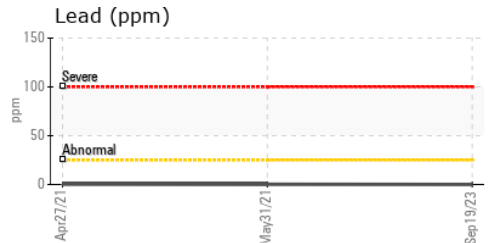
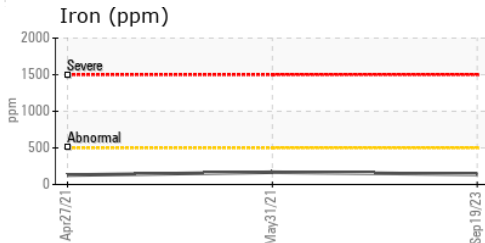
OIL ANALYSIS REPORT



FLUID PROPERTIES		method	limit/base	current	history1	history2
Visc @ 40°C	cSt	ASTM D7279(m)	355.4	139	138	138
Visc @ 100°C	cSt	ASTM D7279(m)	26.1	14.7	14.4	14.3
Viscosity Index (VI)	Scale	ASTM D2270*	97	105	102	101

SAMPLE IMAGES		method	limit/base	current	history1	history2
Color						
Bottom						

GRAPHS



Laboratory : WearCheck - C8-1175 Appleby Line, Burlington, ON L7L 5H9
Sample No. : PC0075060 **Received** : 22 Sep 2023
Lab Number : 02584733 **Diagnosed** : 22 Sep 2023
Unique Number : 5645798 **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.