

OIL ANALYSIS REPORT

Sample Rating Trend

VISUAL METAL



Area
Scoop 6 Yard
Machine Id
LHD6104
Component
Front Differential
Fluid
PETRO CANADA TRAXON 80W90 (18 LTR)



DIAGNOSIS

▲ Recommendation

We advise that you check for visible metal particles in the oil. We recommend that you drain the oil from the component if this has not already been done. Confirm the source of the lubricant being utilized for top-up/fill. We recommend an early resample to monitor this condition.

▲ Wear

Light concentration of visible metal present. Bearing and/or bushing wear is indicated.

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 oil is no longer serviceable as a result of the abnormal and/or severe wear.

SAMPLE INFORMATION

method	limit/base	current	history1	history2
Sample Number	Client Info	PC0074887	---	---
Sample Date	Client Info	20 Jan 2024	---	---
Machine Age	hrs Client Info	3370	---	---
Oil Age	hrs Client Info	0	---	---
Oil Changed	Client Info	N/A	---	---
Sample Status		ABNORMAL	---	---

CONTAMINATION

method	limit/base	current	history1	history2
Water	WC Method >.2	NEG	---	---

WEAR METALS

method	limit/base	current	history1	history2
Iron	ppm ASTM D5185(m) >500	388	---	---
Chromium	ppm ASTM D5185(m) >10	2	---	---
Nickel	ppm ASTM D5185(m) >10	<1	---	---
Titanium	ppm ASTM D5185(m)	0	---	---
Silver	ppm ASTM D5185(m)	0	---	---
Aluminum	ppm ASTM D5185(m) >25	2	---	---
Lead	ppm ASTM D5185(m) >25	2	---	---
Copper	ppm ASTM D5185(m) >100	89	---	---
Tin	ppm ASTM D5185(m) >10	3	---	---
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	---	---

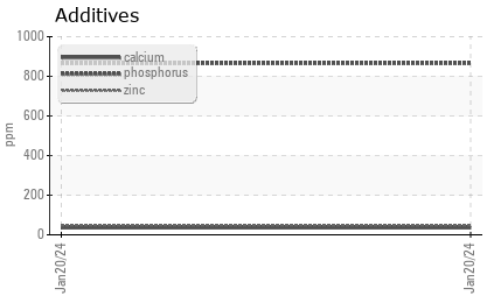
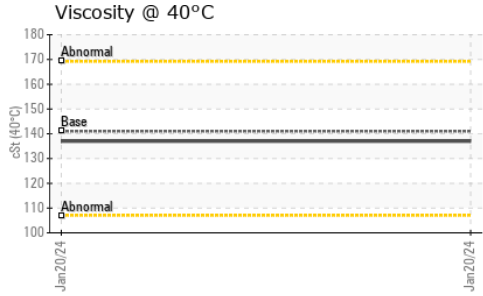
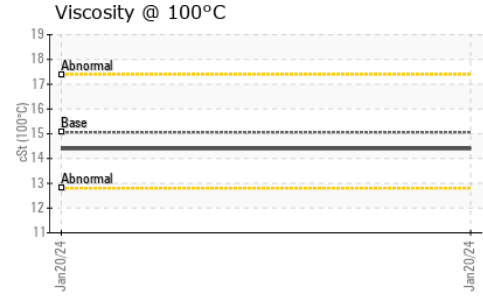
ADDITIVES

method	limit/base	current	history1	history2
Boron	ppm ASTM D5185(m) 243	33	---	---
Barium	ppm ASTM D5185(m) 1	0	---	---
Molybdenum	ppm ASTM D5185(m)	0	---	---
Manganese	ppm ASTM D5185(m)	5	---	---
Magnesium	ppm ASTM D5185(m) 2	3	---	---
Calcium	ppm ASTM D5185(m) 6	36	---	---
Phosphorus	ppm ASTM D5185(m) 987	866	---	---
Zinc	ppm ASTM D5185(m) 1	48	---	---
Sulfur	ppm ASTM D5185(m) 21530	21254	---	---
Lithium	ppm ASTM D5185(m)	<1	---	---

CONTAMINANTS

method	limit/base	current	history1	history2
Silicon	ppm ASTM D5185(m) >75	7	---	---
Sodium	ppm ASTM D5185(m)	1	---	---
Potassium	ppm ASTM D5185(m) >20	1	---	---

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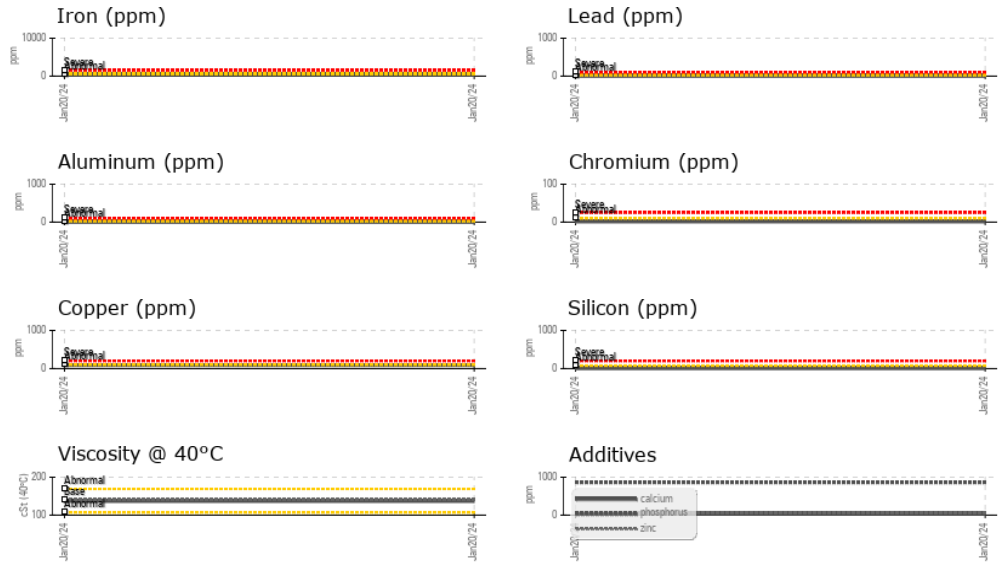


VISUAL	method	limit/base	current	history1	history2	
White Metal	scalar	Visual*	NONE	NONE	---	---
Yellow Metal	scalar	Visual*	NONE	▲ LIGHT	---	---
Precipitate	scalar	Visual*	NONE	NONE	---	---
Silt	scalar	Visual*	NONE	NONE	---	---
Debris	scalar	Visual*	NONE	NONE	---	---
Sand/Dirt	scalar	Visual*	NONE	NONE	---	---
Appearance	scalar	Visual*	NORML	NORML	---	---
Odor	scalar	Visual*	NORML	NORML	---	---
Emulsified Water	scalar	Visual*	>.2	NEG	---	---
Free Water	scalar	Visual*		NEG	---	---

FLUID PROPERTIES	method	limit/base	current	history1	history2	
Visc @ 40°C	cSt	ASTM D7279(m)	141.0	137	---	---
Visc @ 100°C	cSt	ASTM D7279(m)	15.06	14.4	---	---
Viscosity Index (VI)	Scale	ASTM D2270*	108	103	---	---

SAMPLE IMAGES	method	limit/base	current	history1	history2
Color				no image	no image
Bottom				no image	no image
PrtFilter				no image	no image

GRAPHS



Laboratory : WearCheck - C8-1175 Appleby Line, Burlington, ON L7L 5H9
Sample No. : PC0074887
Lab Number : 02614447
Unique Number : 5723542
Test Package : MOB 1 (Additional Tests: Bottom, BottomAnalysis, FilterPatch, 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.