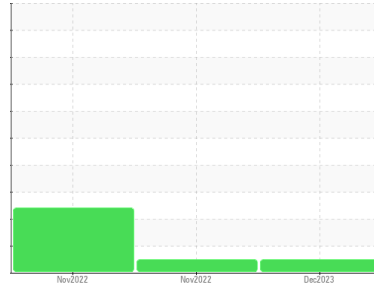


# OIL ANALYSIS REPORT



Area  
**Scoop 6 Yard**  
Machine Id  
**LHD6103**  
Component  
**Transmission (Manual)**  
Fluid  
**PETRO CANADA DURATRAN (37 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		<b>PC0075006</b>	PC0051046	PC0051049
Sample Date	Client Info		<b>02 Dec 2023</b>	16 Nov 2022	16 Nov 2022
Machine Age	hrs	Client Info	<b>7269</b>	0	0
Oil Age	hrs	Client Info	<b>0</b>	0	0
Oil Changed	Client Info		<b>N/A</b>	N/A	N/A
Sample Status			<b>NORMAL</b>	NORMAL	ABNORMAL

## CONTAMINATION

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

## WEAR METALS

	method	limit/base	current	history1	history2	
Iron	ppm	ASTM D5185(m)	>200	<b>29</b>	5	25
Chromium	ppm	ASTM D5185(m)	>5	<b>0</b>	0	0
Nickel	ppm	ASTM D5185(m)	>5	<b>&lt;1</b>	<1	<1
Titanium	ppm	ASTM D5185(m)		<b>0</b>	<1	2
Silver	ppm	ASTM D5185(m)	>7	<b>0</b>	0	0
Aluminum	ppm	ASTM D5185(m)	>25	<b>2</b>	<1	▲ 17
Lead	ppm	ASTM D5185(m)	>45	<b>&lt;1</b>	0	0
Copper	ppm	ASTM D5185(m)	>225	<b>5</b>	<1	<1
Tin	ppm	ASTM D5185(m)	>10	<b>0</b>	0	<1
Antimony	ppm	ASTM D5185(m)		<b>0</b>	<1	<1
Vanadium	ppm	ASTM D5185(m)		<b>0</b>	0	0
Beryllium	ppm	ASTM D5185(m)		<b>0</b>	0	0
Cadmium	ppm	ASTM D5185(m)		<b>0</b>	0	0

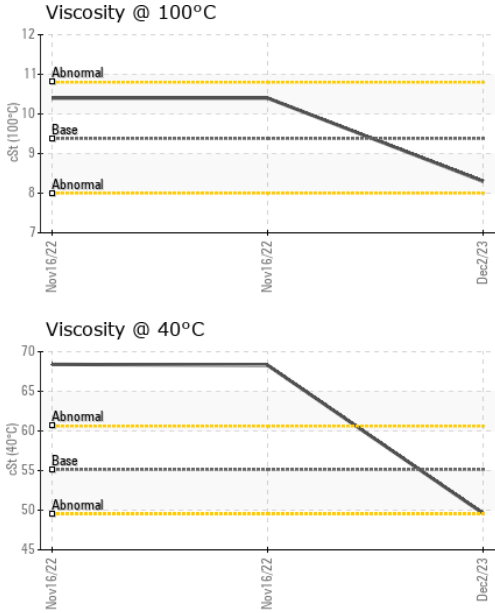
## ADDITIVES

	method	limit/base	current	history1	history2	
Boron	ppm	ASTM D5185(m)	110	<b>90</b>	28	28
Barium	ppm	ASTM D5185(m)	0.0	<b>0</b>	0	<1
Molybdenum	ppm	ASTM D5185(m)	0.0	<b>&lt;1</b>	21	21
Manganese	ppm	ASTM D5185(m)	1	<b>0</b>	<1	<1
Magnesium	ppm	ASTM D5185(m)	13	<b>26</b>	347	352
Calcium	ppm	ASTM D5185(m)	3610	<b>3424</b>	1849	1855
Phosphorus	ppm	ASTM D5185(m)	1192	<b>1136</b>	949	944
Zinc	ppm	ASTM D5185(m)	1455	<b>1369</b>	1067	1069
Sulfur	ppm	ASTM D5185(m)	2641	<b>2618</b>	2371	2359
Lithium	ppm	ASTM D5185(m)		<b>&lt;1</b>	<1	<1

## CONTAMINANTS

	method	limit/base	current	history1	history2	
Silicon	ppm	ASTM D5185(m)	>125	<b>8</b>	5	▲ 52
Sodium	ppm	ASTM D5185(m)		<b>1</b>	2	8
Potassium	ppm	ASTM D5185(m)	>20	<b>&lt;1</b>	<1	6

# OIL ANALYSIS REPORT

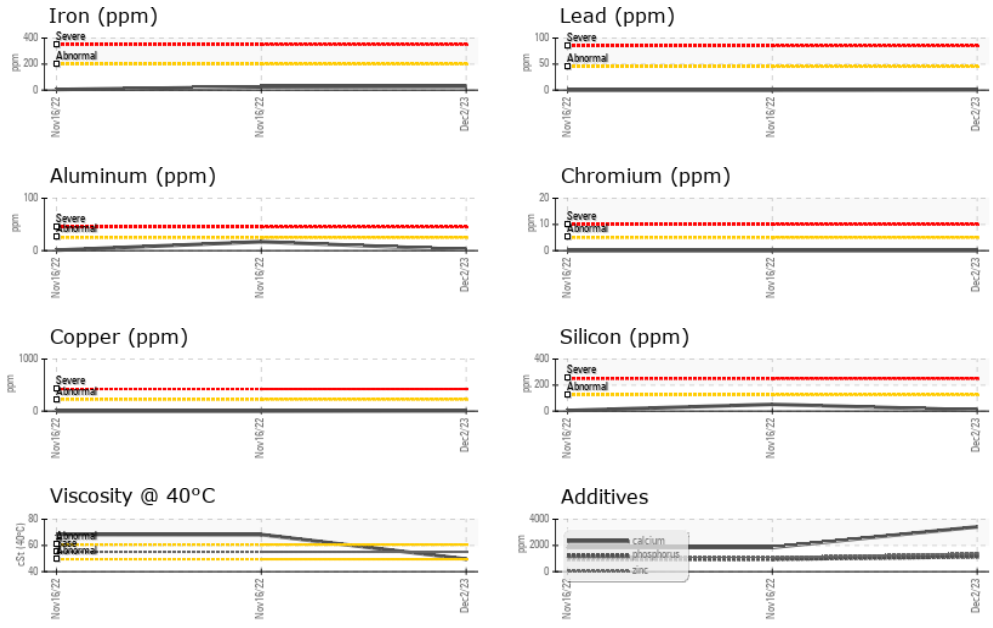


VISUAL	method	limit/base	current	history1	history2
White Metal	scalar	Visual*	NONE	NONE	VLITE
Yellow Metal	scalar	Visual*	NONE	NONE	NONE
Precipitate	scalar	Visual*	NONE	NONE	NONE
Silt	scalar	Visual*	NONE	NONE	NONE
Debris	scalar	Visual*	NONE	NONE	NONE
Sand/Dirt	scalar	Visual*	NONE	VLITE	VLITE
Appearance	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)	55.14	49.6	68.3
Visc @ 100°C	cSt	ASTM D7279(m)	9.38	8.3	10.4
Viscosity Index (VI)	Scale	ASTM D2270*	153	141	139

SAMPLE IMAGES	method	limit/base	current	history1	history2
Color					
Bottom					

## GRAPHS



ISO 17025:2017  
Accredited  
Laboratory

**Laboratory** : WearCheck - C8-1175 Appleby Line, Burlington, ON L7L 5H9  
**Sample No.** : PC0075006 **Received** : 20 Dec 2023  
**Lab Number** : 02604459 **Diagnosed** : 20 Dec 2023  
**Unique Number** : 5697544 **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

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.

T:  
F: