

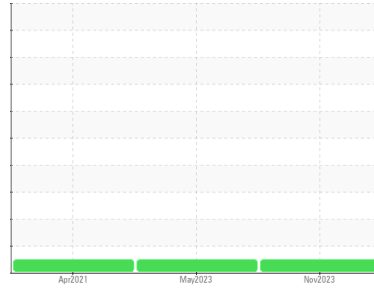
# OIL ANALYSIS REPORT

Sample Rating Trend

**NORMAL**



Area  
**Scoop 6 Yard**  
Machine Id  
**LHD6102**  
Component  
**Hydraulic System**  
Fluid  
**PETRO CANADA DURATRAN (166 LTR)**



## 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 oil.

### Fluid Condition

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

## SAMPLE INFORMATION

	method	limit/base	current	history1	history2
Sample Number	Client Info		<b>PC0075097</b>	PC0066837	PC0046617
Sample Date	Client Info		<b>02 Nov 2023</b>	11 May 2023	27 Apr 2021
Machine Age	hrs	Client Info	<b>3868</b>	2662	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	NORMAL

## WEAR METALS

	method	limit/base	current	history1	history2
Iron	ppm	ASTM D5185(m) >20	<b>2</b>	3	2
Chromium	ppm	ASTM D5185(m) >10	<b>0</b>	0	0
Nickel	ppm	ASTM D5185(m) >10	<b>&lt;1</b>	0	0
Titanium	ppm	ASTM D5185(m)	<b>0</b>	0	<1
Silver	ppm	ASTM D5185(m)	<b>&lt;1</b>	0	<1
Aluminum	ppm	ASTM D5185(m) >10	<b>1</b>	<1	1
Lead	ppm	ASTM D5185(m) >10	<b>0</b>	<1	<1
Copper	ppm	ASTM D5185(m) >75	<b>&lt;1</b>	1	<1
Tin	ppm	ASTM D5185(m) >10	<b>0</b>	0	0
Antimony	ppm	ASTM D5185(m)	<b>0</b>	0	<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>76</b>	12	76
Barium	ppm	ASTM D5185(m) 0.0	<b>&lt;1</b>	0	<1
Molybdenum	ppm	ASTM D5185(m) 0.0	<b>0</b>	<1	2
Manganese	ppm	ASTM D5185(m) 1	<b>0</b>	0	<1
Magnesium	ppm	ASTM D5185(m) 13	<b>15</b>	11	39
Calcium	ppm	ASTM D5185(m) 3610	<b>2554</b>	2220	3143
Phosphorus	ppm	ASTM D5185(m) 1192	<b>929</b>	890	984
Zinc	ppm	ASTM D5185(m) 1455	<b>1169</b>	1013	1279
Sulfur	ppm	ASTM D5185(m) 2641	<b>2196</b>	2414	2660
Lithium	ppm	ASTM D5185(m)	<b>&lt;1</b>	<1	<1

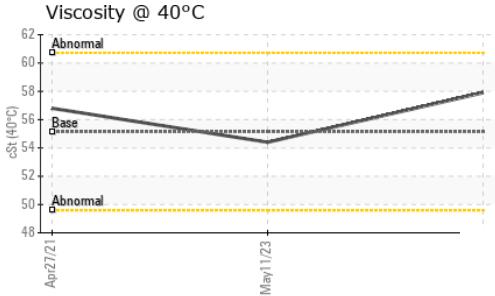
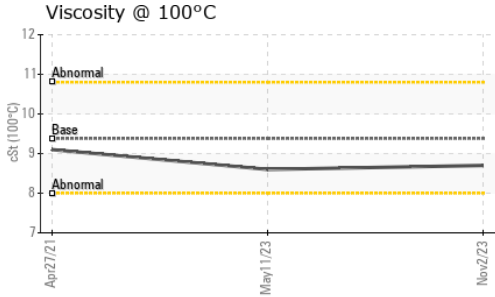
## CONTAMINANTS

	method	limit/base	current	history1	history2
Silicon	ppm	ASTM D5185(m) >20	<b>9</b>	5	9
Sodium	ppm	ASTM D5185(m)	<b>&lt;1</b>	<1	6
Potassium	ppm	ASTM D5185(m) >20	<b>0</b>	<1	<1

## VISUAL

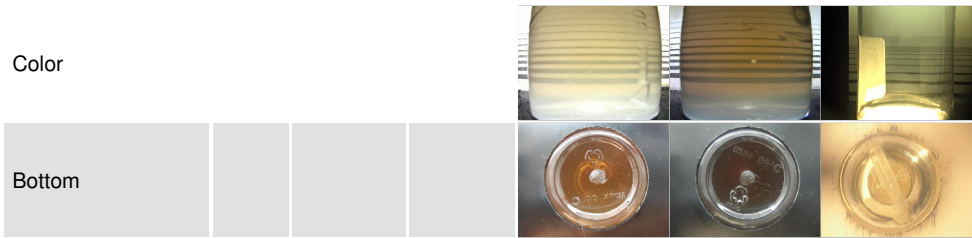
	method	limit/base	current	history1	history2
White Metal	scalar	Visual*	NONE	<b>NONE</b>	NONE
Yellow Metal	scalar	Visual*	NONE	<b>NONE</b>	NONE
Precipitate	scalar	Visual*	NONE	<b>NONE</b>	NONE
Silt	scalar	Visual*	NONE	<b>NONE</b>	NONE
Debris	scalar	Visual*	NONE	<b>NONE</b>	NONE
Sand/Dirt	scalar	Visual*	NONE	<b>NONE</b>	NONE
Appearance	scalar	Visual*	NORML	<b>NORML</b>	NORML
Odor	scalar	Visual*	NORML	<b>NORML</b>	NORML
Emulsified Water	scalar	Visual*	>0.1	<b>NEG</b>	NEG
Free Water	scalar	Visual*		<b>NEG</b>	NEG

# OIL ANALYSIS REPORT

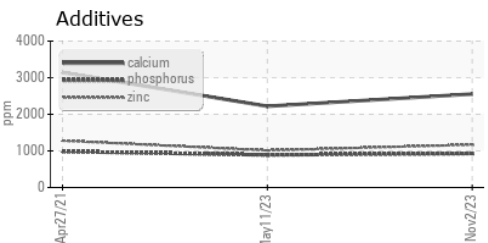
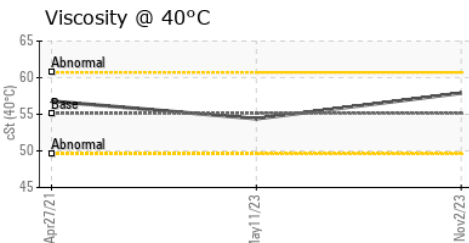
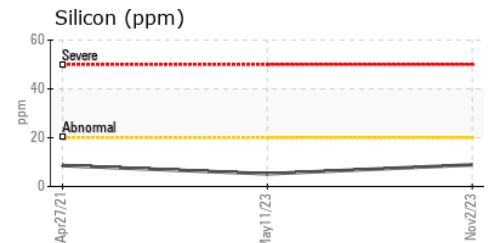
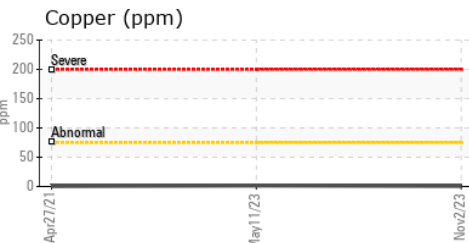
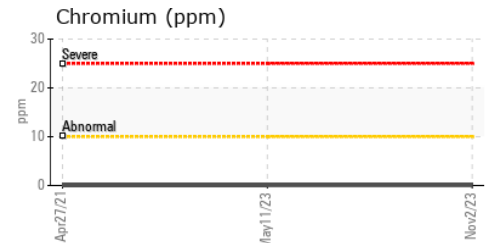
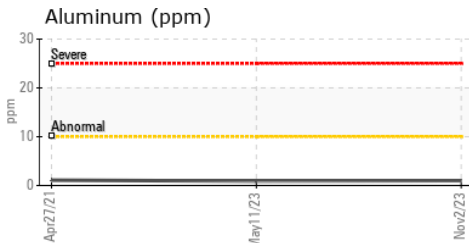
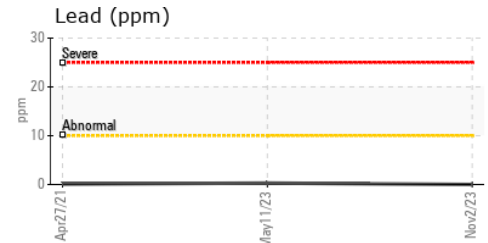
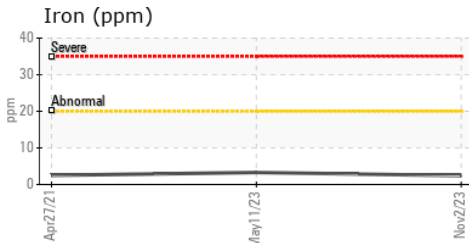


FLUID PROPERTIES		method	limit/base	current	history1	history2
Visc @ 40°C	cSt	ASTM D7279(m)	55.14	<b>57.9</b>	54.4	56.8
Visc @ 100°C	cSt	ASTM D7279(m)	9.38	<b>8.7</b>	8.6	9.1
Viscosity Index (VI)	Scale	ASTM D2270*	153	<b>125</b>	133	139

SAMPLE IMAGES		method	limit/base	current	history1	history2
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## GRAPHS



**Laboratory** : WearCheck - C8-1175 Appleby Line, Burlington, ON L7L 5H9  
**Sample No.** : PC0075097 **Received** : 14 Nov 2023  
**Lab Number** : **02596258** **Diagnosed** : 14 Nov 2023  
**Unique Number** : 5681338 **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.