

OIL ANALYSIS REPORT



Area
Scoop 6 Yard
Machine Id
LHD6103
Component
Hydraulic System
Fluid
PETRO CANADA DURATRAN (166 LTR)

Sample Rating Trend



VISUAL METAL



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. We recommend an early resample to monitor this condition. Please contact your representative for information regarding the proper sampling kits for your service. NOTE: We recommend using MOB 2 test kits, this testkit includes Particle Count to determine the ISO cleanliness of the fluid.

▲ Wear

Light concentration of visible metal present.

Contamination

There is no indication of any contamination in the oil.

Fluid Condition

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		PC0075002	---	---
Sample Date	Client Info		02 Dec 2023	---	---
Machine Age	hrs	Client Info	7269	---	---
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	>0.1	NEG	---	---

WEAR METALS

	method	limit/base	current	history1	history2
Iron	ppm	ASTM D5185(m) >20	6	---	---
Chromium	ppm	ASTM D5185(m) >10	0	---	---
Nickel	ppm	ASTM D5185(m) >10	<1	---	---
Titanium	ppm	ASTM D5185(m)	0	---	---
Silver	ppm	ASTM D5185(m)	0	---	---
Aluminum	ppm	ASTM D5185(m) >10	3	---	---
Lead	ppm	ASTM D5185(m) >10	0	---	---
Copper	ppm	ASTM D5185(m) >75	<1	---	---
Tin	ppm	ASTM D5185(m) >10	0	---	---
Antimony	ppm	ASTM D5185(m)	0	---	---
Vanadium	ppm	ASTM D5185(m)	0	---	---
Beryllium	ppm	ASTM D5185(m)	0	---	---
Cadmium	ppm	ASTM D5185(m)	0	---	---

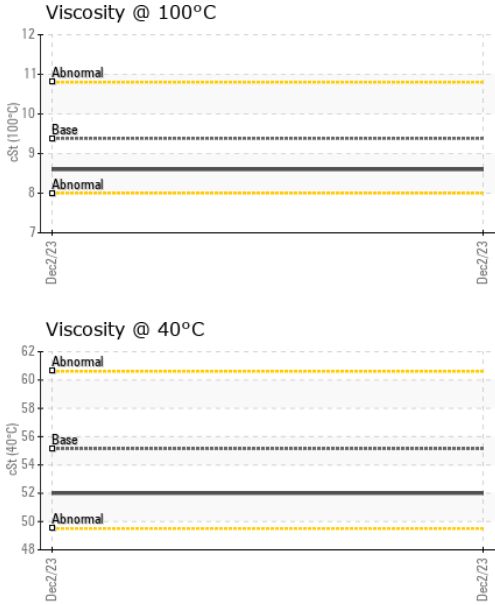
ADDITIVES

	method	limit/base	current	history1	history2
Boron	ppm	ASTM D5185(m) 110	97	---	---
Barium	ppm	ASTM D5185(m) 0.0	0	---	---
Molybdenum	ppm	ASTM D5185(m) 0.0	0	---	---
Manganese	ppm	ASTM D5185(m) 1	0	---	---
Magnesium	ppm	ASTM D5185(m) 13	18	---	---
Calcium	ppm	ASTM D5185(m) 3610	3450	---	---
Phosphorus	ppm	ASTM D5185(m) 1192	1117	---	---
Zinc	ppm	ASTM D5185(m) 1455	1376	---	---
Sulfur	ppm	ASTM D5185(m) 2641	2784	---	---
Lithium	ppm	ASTM D5185(m)	<1	---	---

CONTAMINANTS

	method	limit/base	current	history1	history2
Silicon	ppm	ASTM D5185(m) >20	14	---	---
Sodium	ppm	ASTM D5185(m)	<1	---	---
Potassium	ppm	ASTM D5185(m) >20	<1	---	---

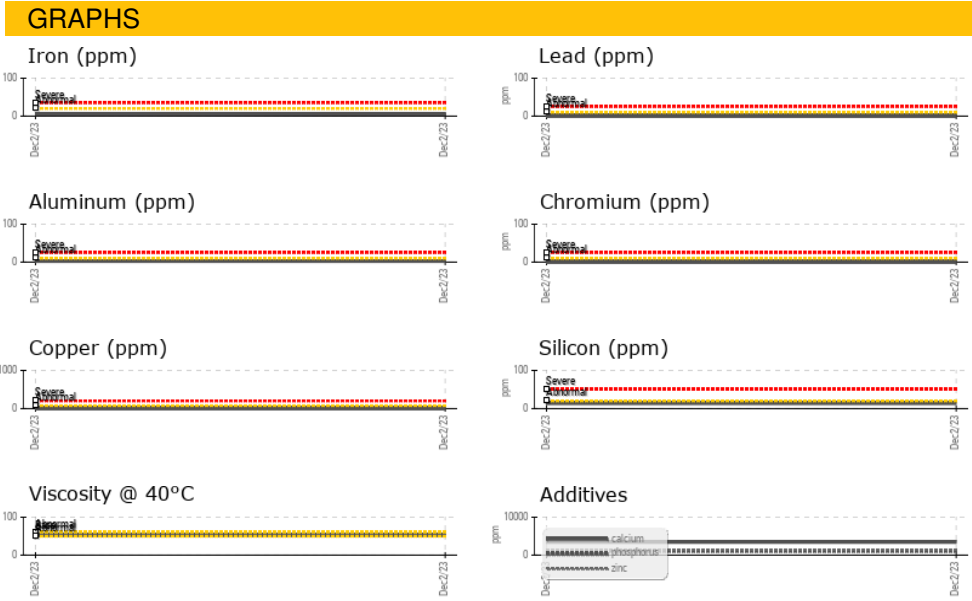
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VISUAL	method	limit/base	current	history1	history2
White Metal	scalar	Visual*	NONE	▲ VLITE	---
Yellow Metal	scalar	Visual*	NONE	NONE	---
Precipitate	scalar	Visual*	NONE	NONE	---
Silt	scalar	Visual*	NONE	NONE	---
Debris	scalar	Visual*	NONE	NONE	---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

FLUID PROPERTIES	method	limit/base	current	history1	history2
Visc @ 40°C	cSt	ASTM D7279(m)	55.14	52.0	---
Visc @ 100°C	cSt	ASTM D7279(m)	9.38	8.6	---
Viscosity Index (VI)	Scale	ASTM D2270*	153	142	---

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



Laboratory : WearCheck - C8-1175 Appleby Line, Burlington, ON L7L 5H9
Sample No. : PC0075002 **Recieved** : 20 Dec 2023
Lab Number : 02604439 **Diagnosed** : 22 Dec 2023
Unique Number : 5697524 **Diagnostician** : Kevin Marson
Test Package : MOB 1 (Additional Tests: Bottom, BottomAnalysis, FilterPatch, 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.