



LIEBHERR

OIL ANALYSIS REPORT

WEAR	NORMAL
CONTAMINATION	NORMAL
FLUID CONDITION	NORMAL



Machine Id
LIEBHERR R945 055572-1866
Component
Diesel Engine
Fluid
PETRO CANADA 10W40 (30 LTR)

RECOMMENDATION

Resample at the next service interval to monitor.

Test	UOM	Method	Limit/Abn	Current	History1	History2
Sample Number		Client Info		LH0250467	---	---
Sample Date		Client Info		06 Apr 2023	---	---
Machine Age	hrs	Client Info		562	---	---
Oil Age	hrs	Client Info		0	---	---
Filter Age	hrs	Client Info		0	---	---
Oil Changed		Client Info		Changed	---	---
Filter Changed		Client Info		N/A	---	---
Sample Status				NORMAL	---	---

WEAR

Metal levels are typical for a new component breaking in.

Iron	ppm	ASTM D5185(m)	>100	14	---	---
Chromium	ppm	ASTM D5185(m)	>5	<1	---	---
Nickel	ppm	ASTM D5185(m)	>5	<1	---	---
Titanium	ppm	ASTM D5185(m)		<1	---	---
Silver	ppm	ASTM D5185(m)	>3	0	---	---
Aluminum	ppm	ASTM D5185(m)	>15	2	---	---
Lead	ppm	ASTM D5185(m)	>30	9	---	---
Copper	ppm	ASTM D5185(m)	>125	227	---	---
Tin	ppm	ASTM D5185(m)	>5	2	---	---
Vanadium	ppm	ASTM D5185(m)		0	---	---

CONTAMINATION

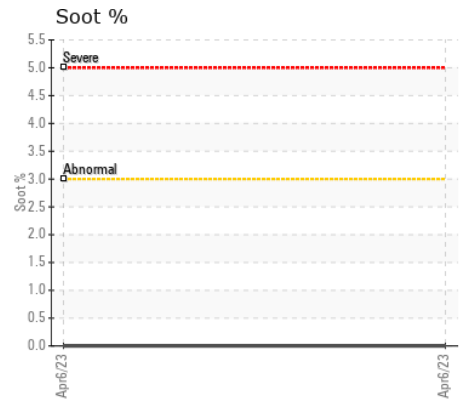
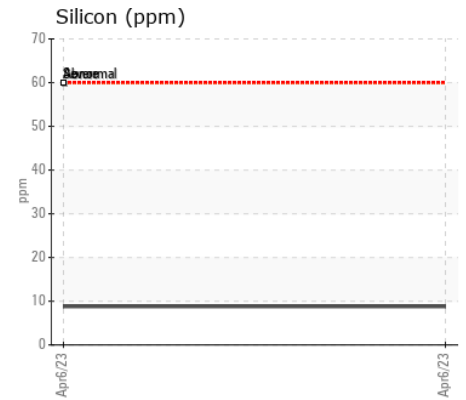
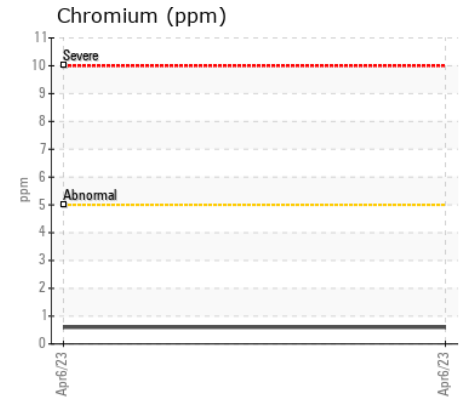
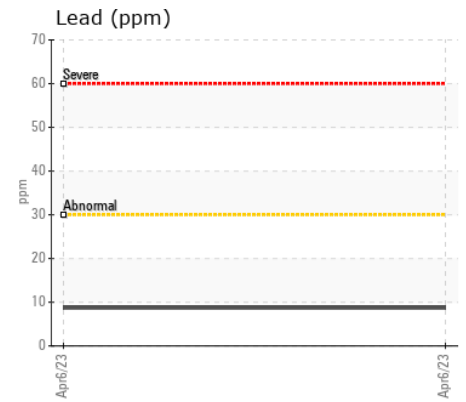
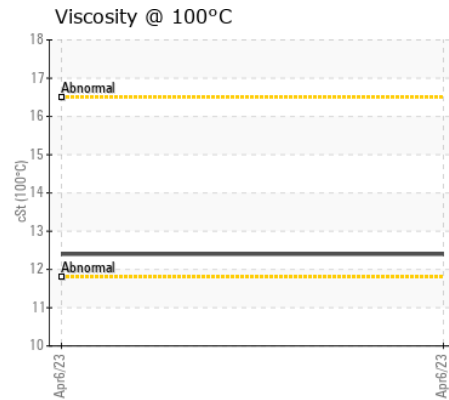
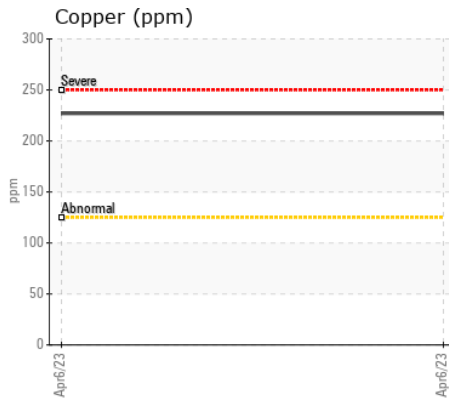
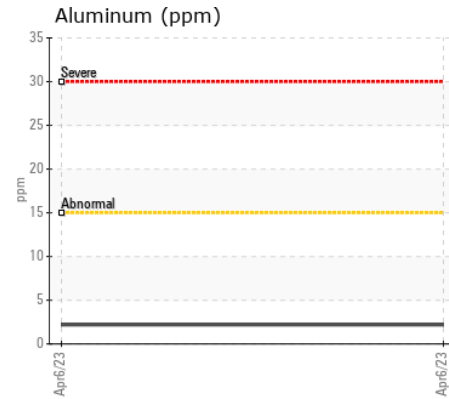
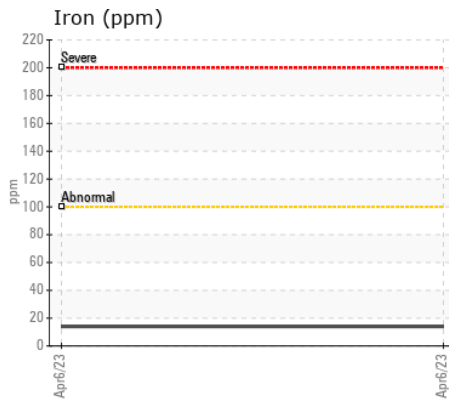
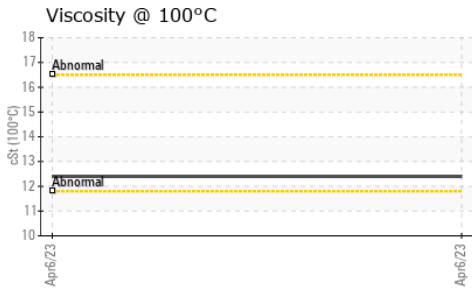
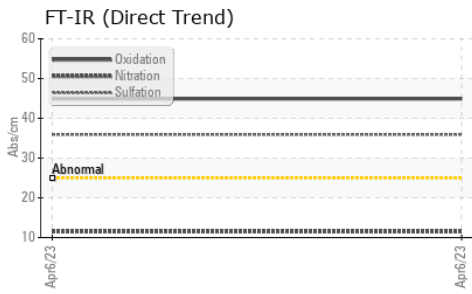
There is no indication of any contamination in the oil.

Silicon	ppm	ASTM D5185(m)	>60	9	---	---
Potassium	ppm	ASTM D5185(m)	>20	1	---	---
Fuel		WC Method	>5	<1.0	---	---
Water		WC Method	>0.2	NEG	---	---
Glycol		WC Method		NEG	---	---
Soot %	%	ASTM D7844*	>3	0	---	---
Nitration	Abs/cm	ASTM D7624*	>20	11.5	---	---
Sulfation	Abs/.1mm	ASTM D7415*	>30	35.9	---	---
Emulsified Water	scalar	Visual*	>0.2	NEG	---	---

FLUID CONDITION

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

Sodium	ppm	ASTM D5185(m)	>20	3	---	---
Boron	ppm	ASTM D5185(m)		47	---	---
Barium	ppm	ASTM D5185(m)		21	---	---
Molybdenum	ppm	ASTM D5185(m)		49	---	---
Manganese	ppm	ASTM D5185(m)		1	---	---
Magnesium	ppm	ASTM D5185(m)		931	---	---
Calcium	ppm	ASTM D5185(m)		1330	---	---
Phosphorus	ppm	ASTM D5185(m)		838	---	---
Zinc	ppm	ASTM D5185(m)		950	---	---
Sulfur	ppm	ASTM D5185(m)		1907	---	---
Oxidation	Abs/.1mm	ASTM D7414*	>25	44.9	---	---
Visc @ 100°C	cSt	ASTM D7279(m)		12.4	---	---



Laboratory : WearCheck - C8-1175 Appleby Line, Burlington, ON L7L 5H9
Sample No. : LH0250467 **Received** : 27 Apr 2023
Lab Number : 02553839 **Tested** : 27 Apr 2023
Unique Number : 5566854 **Diagnosed** : 27 Apr 2023 - Kevin Marson
Test Package : MOB 1

Amix Recycling
 11698 140 Street
 Surrey, BC
 CA V3R 2V4
 Contact: Kenji Wong
 kwong@amixgroup.ca
 T:
 F: (250)802-1002

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.