



LIEBHERR

OIL ANALYSIS REPORT

WEAR	NORMAL
CONTAMINATION	NORMAL
FLUID CONDITION	ATTENTION



Machine Id
LIEBHERR A918 138609-1508
Component
Front Right Wheel Hub
Fluid
PETRO CANADA TRAXON 75W90 SYNTHETIC (--- GAL)

RECOMMENDATION

Confirm the source of the lubricant being utilized for top-up/fill.
Resample at the next service interval to monitor.

Test	UOM	Method	Limit/Abn	Current	History1	History2
Sample Number		Client Info		LH0237473	LH0242012	LH0237460
Sample Date		Client Info		23 Apr 2024	28 Nov 2023	08 Aug 2023
Machine Age	hrs	Client Info		3501	2960	2194
Oil Age	hrs	Client Info		0	0	0
Filter Age	hrs	Client Info		0	0	0
Oil Changed		Client Info		Changed	Changed	Changed
Filter Changed		Client Info		Changed	None	None
Sample Status				ATTENTION	NORMAL	NORMAL

WEAR

All component wear rates are normal.

Iron	ppm	ASTM D5185(m)	>650	11	344	135
Chromium	ppm	ASTM D5185(m)	>4	0	1	<1
Nickel	ppm	ASTM D5185(m)	>4	0	<1	0
Titanium	ppm	ASTM D5185(m)	>4	0	0	0
Silver	ppm	ASTM D5185(m)		0	<1	0
Aluminum	ppm	ASTM D5185(m)	>25	<1	2	1
Lead	ppm	ASTM D5185(m)	>4	0	<1	<1
Copper	ppm	ASTM D5185(m)	>60	<1	20	29
Tin	ppm	ASTM D5185(m)	>4	0	<1	<1
Vanadium	ppm	ASTM D5185(m)		0	0	0
White Metal	scalar	Visual*	NONE	NONE	VLITE	VLITE
Yellow Metal	scalar	Visual*	NONE	NONE	NONE	NONE

CONTAMINATION

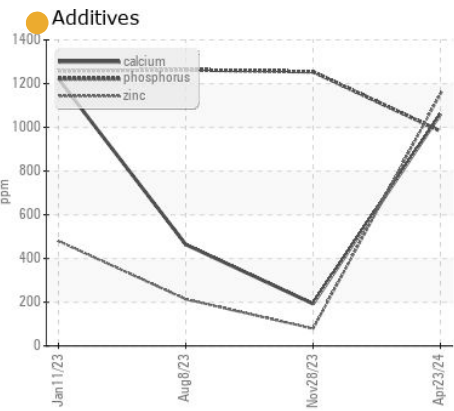
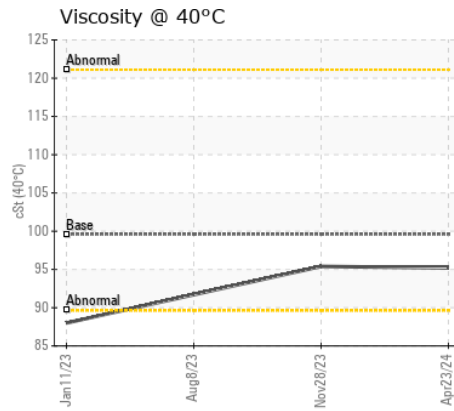
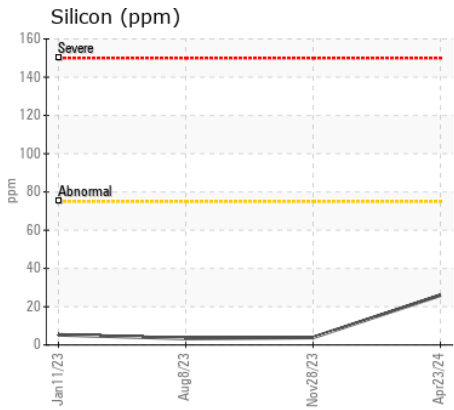
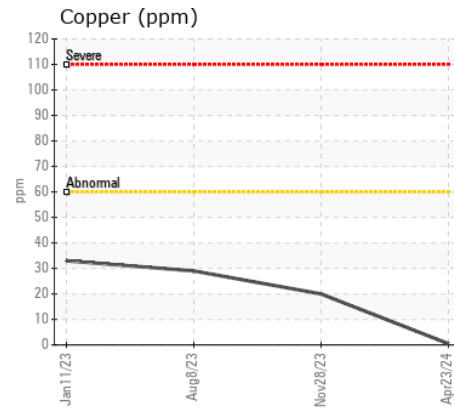
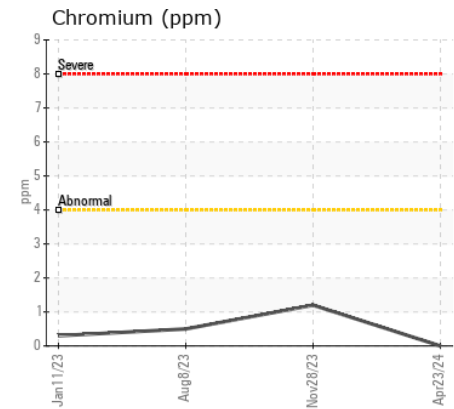
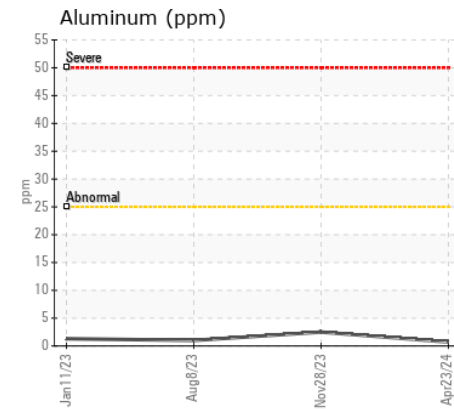
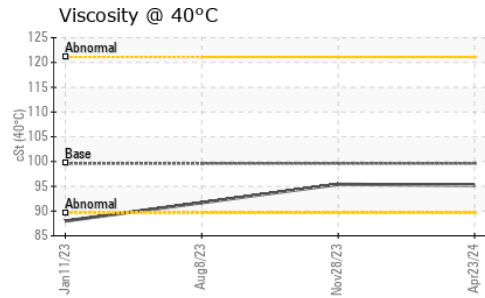
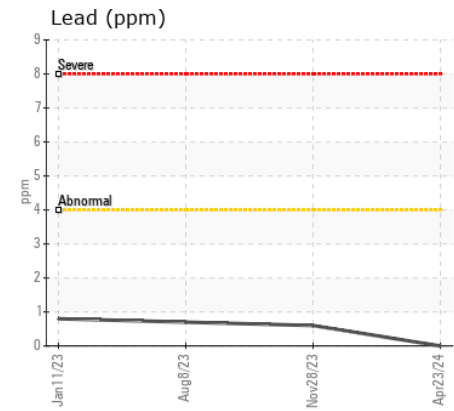
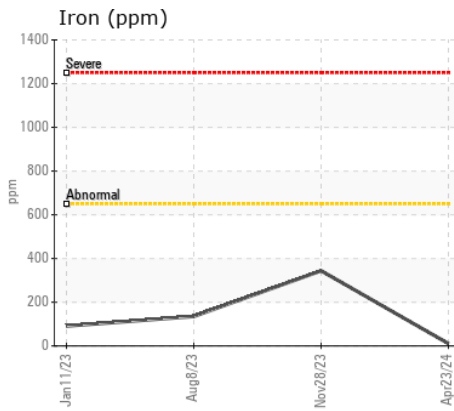
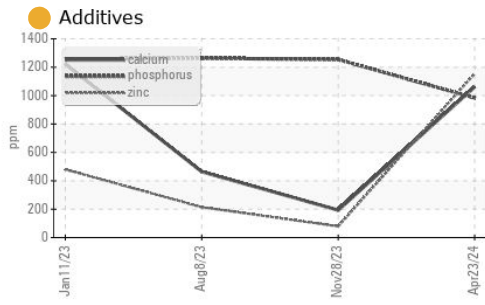
There is no indication of any contamination in the oil.

Silicon	ppm	ASTM D5185(m)	>75	26	4	3
Potassium	ppm	ASTM D5185(m)	>20	<1	<1	<1
Water		WC Method	>0.2	NEG	NEG	NEG
Silt	scalar	Visual*	NONE	NONE	NONE	LIGHT
Debris	scalar	Visual*	NONE	NONE	NONE	NONE
Sand/Dirt	scalar	Visual*	NONE	NONE	NONE	NONE
Appearance	scalar	Visual*	NORML	NORML	NORML	NORML
Odor	scalar	Visual*	NORML	NORML	NORML	NORML
Emulsified Water	scalar	Visual*	>0.2	NEG	NEG	NEG

FLUID CONDITION

Additive levels indicate the addition of a different brand, or type of oil.
The condition of the oil is acceptable for the time in service.

Sodium	ppm	ASTM D5185(m)		2	8	9
Boron	ppm	ASTM D5185(m)	328	<1	225	190
Barium	ppm	ASTM D5185(m)	1	0	4	2
Molybdenum	ppm	ASTM D5185(m)		59	0	0
Manganese	ppm	ASTM D5185(m)		<1	3	2
Magnesium	ppm	ASTM D5185(m)	1	971	4	4
Calcium	ppm	ASTM D5185(m)	7	1061	193	464
Phosphorus	ppm	ASTM D5185(m)	1145	983	1254	1263
Zinc	ppm	ASTM D5185(m)	3	1153	79	214
Sulfur	ppm	ASTM D5185(m)	17909	2530	20321	18505
Visc @ 40°C	cSt	ASTM D7279(m)	99.6	95.2	95.4	91.7



Laboratory : WearCheck - C8-1175 Appleby Line, Burlington, ON L7L 5H9
Sample No. : LH0237473
Lab Number : 02632847
Unique Number : 5774000
Test Package : MOBCE
Received : 02 May 2024
Tested : 02 May 2024
Diagnosed : 02 May 2024 - Kevin Marson

SILVERFOX EXCAVATION LTD.
 66037 OGILVIEW DR.
 HOPE, BC
 CA V0X 1L1
 Contact: Service Manager

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.

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