



# LIEBHERR

## OIL ANALYSIS REPORT

WEAR	<b>NORMAL</b>
CONTAMINATION	<b>NORMAL</b>
FLUID CONDITION	<b>NORMAL</b>



Machine Id  
**LIEBHERR A934C 063551**  
Component  
**Swing Drive**  
Fluid  
**PETRO CANADA TRAXON SYNTHETIC 75W90 (7 LTR)**

### RECOMMENDATION

Resample at the next service interval to monitor.

Test	UOM	Method	Limit/Abn	Current	History1	History2
Sample Number		Client Info		<b>LH0286434</b>	LH0284063	LH0260523
Sample Date		Client Info		<b>14 Jun 2024</b>	18 Mar 2024	15 Nov 2023
Machine Age	hrs	Client Info		<b>19528</b>	19058	18492
Oil Age	hrs	Client Info		<b>470</b>	566	703
Filter Age	hrs	Client Info		<b>470</b>	566	703
Oil Changed		Client Info		<b>Changed</b>	Changed	Changed
Filter Changed		Client Info		<b>N/A</b>	N/A	N/A
Sample Status				<b>NORMAL</b>	NORMAL	NORMAL

### WEAR

All component wear rates are normal.

Iron	ppm	ASTM D5185(m)	>1400	<b>24</b>	30	177
Chromium	ppm	ASTM D5185(m)	>15	<b>0</b>	0	1
Nickel	ppm	ASTM D5185(m)	>5	<b>&lt;1</b>	0	<1
Titanium	ppm	ASTM D5185(m)		<b>0</b>	0	0
Silver	ppm	ASTM D5185(m)		<b>0</b>	0	<1
Aluminum	ppm	ASTM D5185(m)	>4	<b>&lt;1</b>	0	<1
Lead	ppm	ASTM D5185(m)	>10	<b>0</b>	0	<1
Copper	ppm	ASTM D5185(m)	>500	<b>8</b>	6	12
Tin	ppm	ASTM D5185(m)	>20	<b>0</b>	0	0
Vanadium	ppm	ASTM D5185(m)		<b>0</b>	0	0
White Metal	scalar	Visual*	NONE	<b>NONE</b>	NONE	NONE
Yellow Metal	scalar	Visual*	NONE	<b>NONE</b>	NONE	NONE

### CONTAMINATION

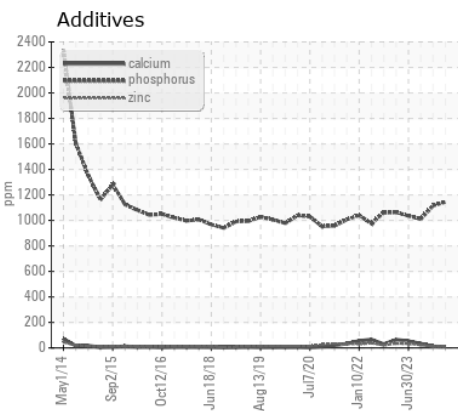
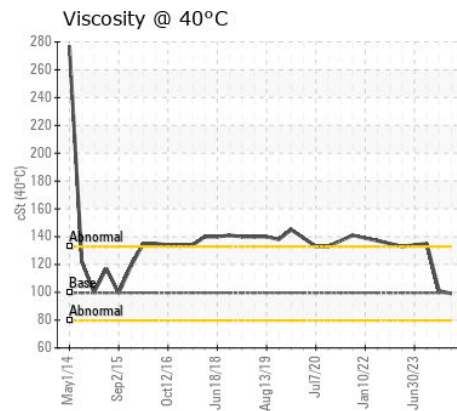
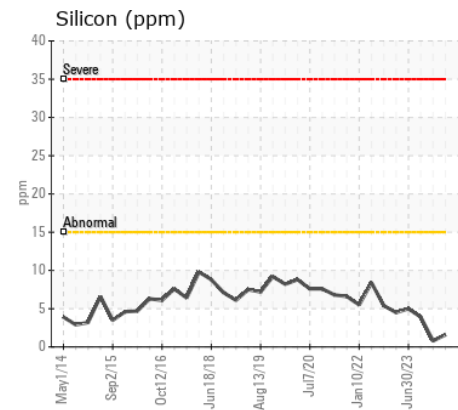
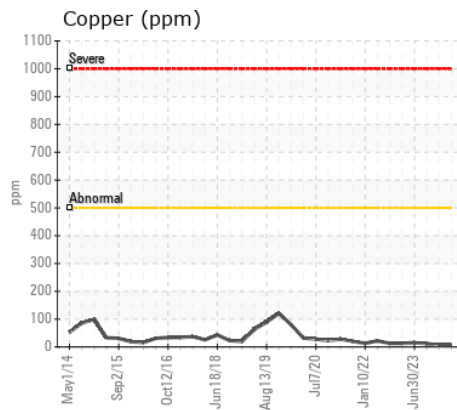
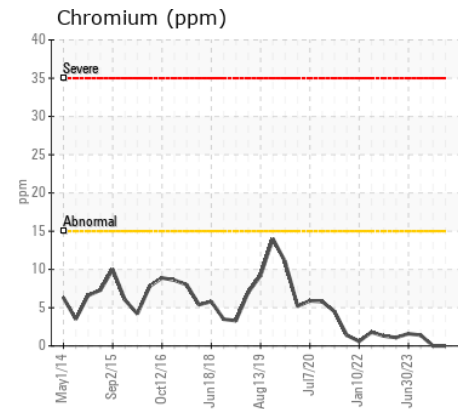
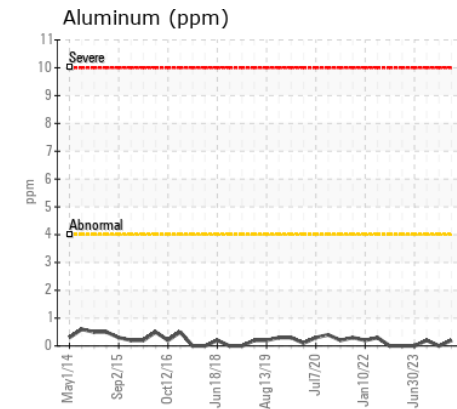
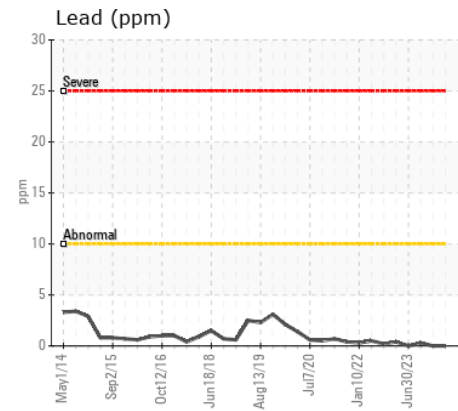
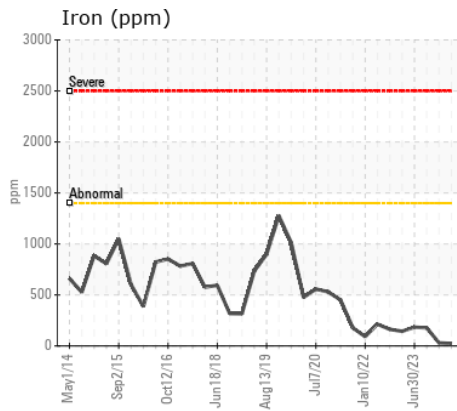
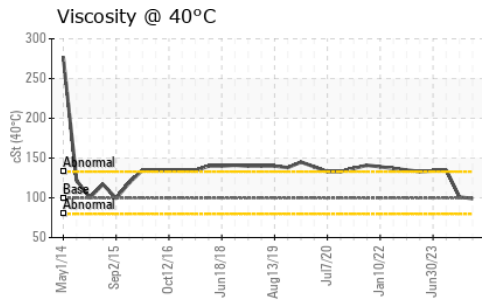
There is no indication of any contamination in the oil.

Silicon	ppm	ASTM D5185(m)	>15	<b>2</b>	<1	4
Potassium	ppm	ASTM D5185(m)	>20	<b>&lt;1</b>	<1	<1
Water		WC Method	>0.2	<b>NEG</b>	NEG	NEG
Silt	scalar	Visual*	NONE	<b>NONE</b>	NONE	NONE
Debris	scalar	Visual*	NONE	<b>NONE</b>	NONE	NONE
Sand/Dirt	scalar	Visual*	NONE	<b>NONE</b>	NONE	NONE
Appearance	scalar	Visual*	NORML	<b>NORML</b>	NORML	NORML
Odor	scalar	Visual*	NORML	<b>NORML</b>	NORML	NORML
Emulsified Water	scalar	Visual*	>0.2	<b>NEG</b>	NEG	NEG

### FLUID CONDITION

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

Sodium	ppm	ASTM D5185(m)		<b>&lt;1</b>	<1	<1
Boron	ppm	ASTM D5185(m)	328	<b>289</b>	304	250
Barium	ppm	ASTM D5185(m)	1	<b>&lt;1</b>	0	<1
Molybdenum	ppm	ASTM D5185(m)		<b>0</b>	0	0
Manganese	ppm	ASTM D5185(m)		<b>0</b>	0	<1
Magnesium	ppm	ASTM D5185(m)	1	<b>2</b>	1	4
Calcium	ppm	ASTM D5185(m)	7	<b>10</b>	12	34
Phosphorus	ppm	ASTM D5185(m)	1145	<b>1145</b>	1116	1010
Zinc	ppm	ASTM D5185(m)	3	<b>11</b>	11	22
Sulfur	ppm	ASTM D5185(m)	17909	<b>19695</b>	18979	17180
Visc @ 40°C	cSt	ASTM D7279(m)	99.6	<b>99.1</b>	101	135



**Laboratory** : WearCheck - C8-1175 Appleby Line, Burlington, ON L7L 5H9  
**Sample No.** : LH0286434 **Received** : 21 Jun 2024  
**Lab Number** : 02643448 **Tested** : 21 Jun 2024  
**Unique Number** : 5800987 **Diagnosed** : 21 Jun 2024 - Wes Davis  
**Test Package** : MOB 1

**ABC RECYCLING**  
 750C JACKSON RD  
 NANAIMO, BC  
 CA V9X 1J2  
 Contact: Jordie Richmond  
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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.