



# LIEBHERR

## OIL ANALYSIS REPORT

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



Machine Id  
**LIEBHERR L580 040987-1170**  
Component  
**Front Differential**  
Fluid  
**PETRO CANADA TRAXON 75W90 SYNTHETIC (40 LTR)**

### RECOMMENDATION

Resample at the next service interval to monitor.

Test	UOM	Method	Limit/Abn	Current	History1	History2
Sample Number		Client Info		<b>LH0278900</b>	LH0178565	LH0242565
Sample Date		Client Info		<b>16 Jan 2024</b>	11 Jul 2023	27 Oct 2022
Machine Age	hrs	Client Info		<b>10169</b>	9082	8084
Oil Age	hrs	Client Info		<b>0</b>	0	0
Filter Age	hrs	Client Info		<b>0</b>	0	0
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	ABNORMAL

### WEAR

All component wear rates are normal.

Iron	ppm	ASTM D5185(m)	>800	<b>75</b>	79	778
Chromium	ppm	ASTM D5185(m)	>10	<b>&lt;1</b>	<1	▲ 12
Nickel	ppm	ASTM D5185(m)	>4	<b>&lt;1</b>	0	0
Titanium	ppm	ASTM D5185(m)	>8	<b>0</b>	0	<1
Silver	ppm	ASTM D5185(m)		<b>0</b>	0	0
Aluminum	ppm	ASTM D5185(m)	>20	<b>&lt;1</b>	<1	4
Lead	ppm	ASTM D5185(m)	>10	<b>0</b>	0	0
Copper	ppm	ASTM D5185(m)	>100	<b>1</b>	1	6
Tin	ppm	ASTM D5185(m)	>5	<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

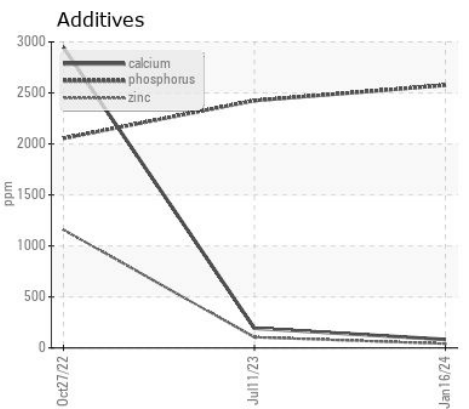
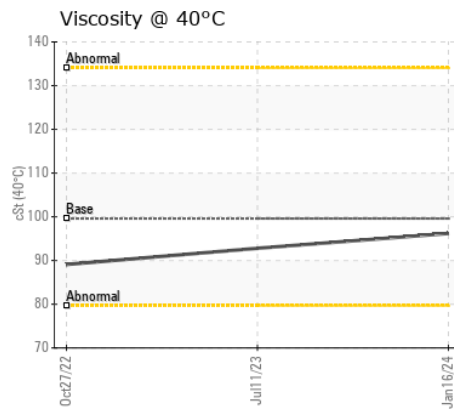
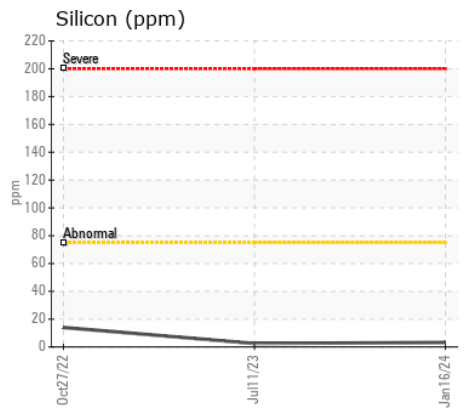
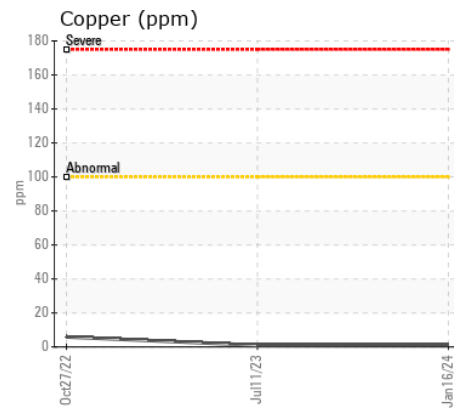
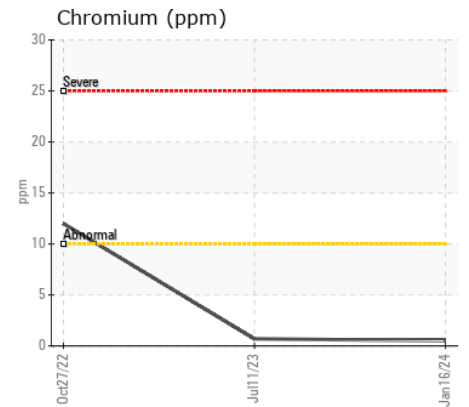
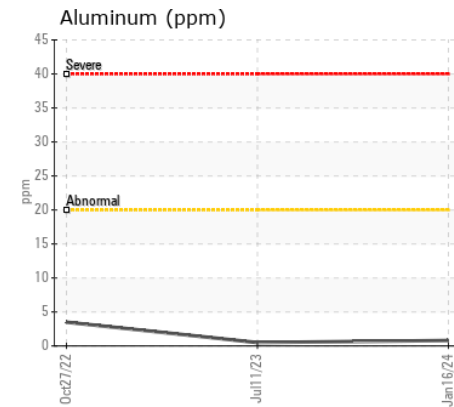
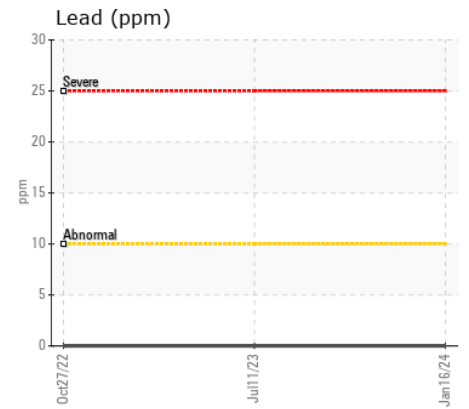
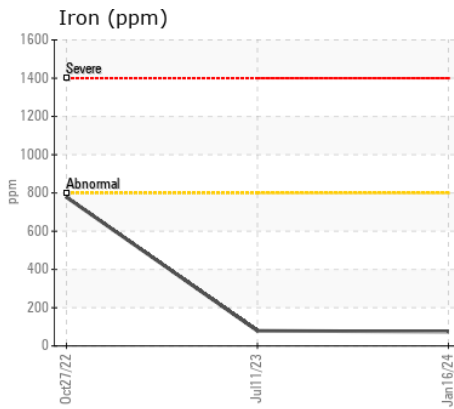
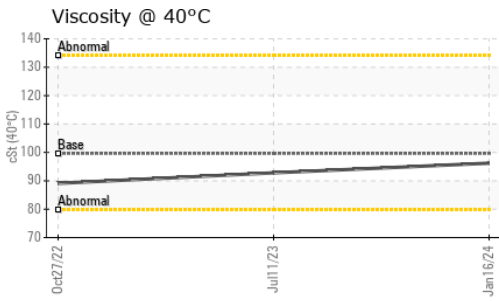
There is no indication of any contamination in the oil.

Silicon	ppm	ASTM D5185(m)	>75	<b>3</b>	2	14
Potassium	ppm	ASTM D5185(m)	>20	<b>&lt;1</b>	<1	0
Water		WC Method	>.2	<b>NEG</b>	NEG	NEG
Silt	scalar	Visual*	NONE	<b>NONE</b>	NONE	VLITE
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*	>.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	2
Boron	ppm	ASTM D5185(m)	328	<b>282</b>	272	32
Barium	ppm	ASTM D5185(m)	1	<b>&lt;1</b>	<1	2
Molybdenum	ppm	ASTM D5185(m)		<b>9</b>	5	38
Manganese	ppm	ASTM D5185(m)		<b>0</b>	<1	4
Magnesium	ppm	ASTM D5185(m)	1	<b>5</b>	12	33
Calcium	ppm	ASTM D5185(m)	7	<b>83</b>	193	2947
Phosphorus	ppm	ASTM D5185(m)	1145	<b>2576</b>	2425	2054
Zinc	ppm	ASTM D5185(m)	3	<b>41</b>	105	1159
Sulfur	ppm	ASTM D5185(m)	17909	<b>19845</b>	18844	4075
Visc @ 40°C	cSt	ASTM D7279(m)	99.6	<b>96.2</b>	92.8	89.1



ISO 17025:2017  
Accredited  
Laboratory

**Laboratory** : WearCheck - C8-1175 Appleby Line, Burlington, ON L7L 5H9 **THOMAS CAVANAGH CONSTRUCTION LTD**  
**Sample No.** : LH0278900 **Received** : 23 Jan 2024 **RR # 2, 9094 CAVANAGH ROAD**  
**Lab Number** : 02610681 **Diagnosed** : 23 Jan 2024 **ASHTON, ON**  
**Unique Number** : 5711767 **Diagnostician** : Wes Davis **CA K0A 1B0**  
**Test Package** : MOB 1 **Contact: Keith**

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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