



# LIEBHERR

## OIL ANALYSIS REPORT

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



Machine Id  
**LIEBHERR L586 045792**

Component  
**Rear Differential**

Fluid  
**PETRO CANADA TRAXON 75W90 SYNTHETIC (--- GAL)**

### RECOMMENDATION

Resample at the next service interval to monitor.

Test	UOM	Method	Limit/Abn	Current	History1	History2
Sample Number		Client Info		<b>LH0278656</b>	LH	LH
Sample Date		Client Info		<b>21 Jan 2024</b>	27 Sep 2019	16 Jan 2019
Machine Age	hrs	Client Info		<b>18497</b>	6204	4264
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>None</b>	None	None
Sample Status				<b>NORMAL</b>	NORMAL	NORMAL

### WEAR

All component wear rates are normal.

Iron	ppm	ASTM D5185(m)	>1500	<b>52</b>	117	44
Chromium	ppm	ASTM D5185(m)	>10	<b>&lt;1</b>	1	<1
Nickel	ppm	ASTM D5185(m)	>4	<b>0</b>	<1	0
Titanium	ppm	ASTM D5185(m)	>5	<b>0</b>	0	0
Silver	ppm	ASTM D5185(m)		<b>0</b>	0	0
Aluminum	ppm	ASTM D5185(m)	>20	<b>&lt;1</b>	<1	<1
Lead	ppm	ASTM D5185(m)	>5	<b>&lt;1</b>	1	<1
Copper	ppm	ASTM D5185(m)	>200	<b>25</b>	42	15
Tin	ppm	ASTM D5185(m)	>10	<b>&lt;1</b>	3	<1
Vanadium	ppm	ASTM D5185(m)		<b>0</b>	<1	0
White Metal	scalar	Visual*	NONE	<b>NONE</b>	LIGHT	LIGHT
Yellow Metal	scalar	Visual*	NONE	<b>NONE</b>	NONE	NONE

### CONTAMINATION

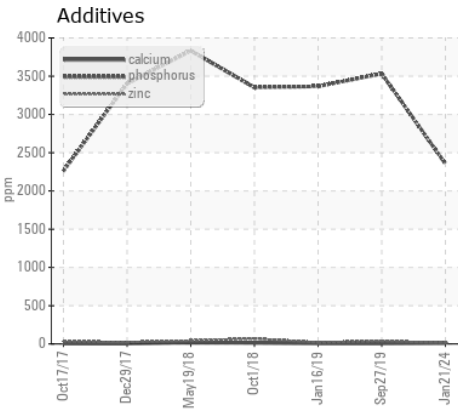
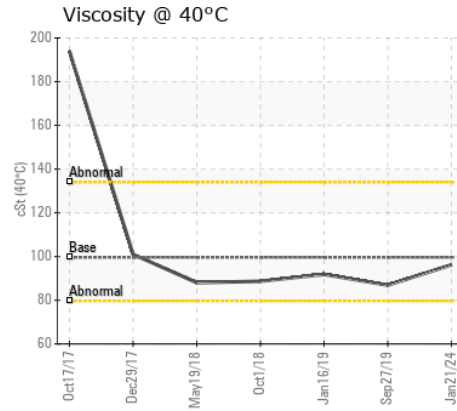
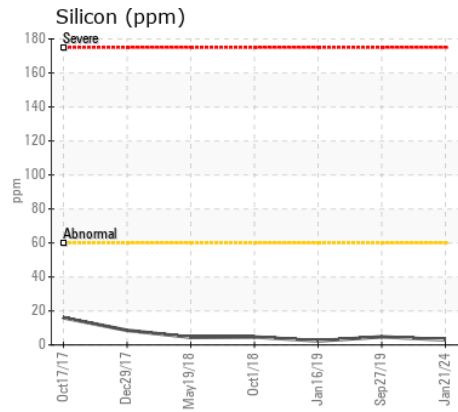
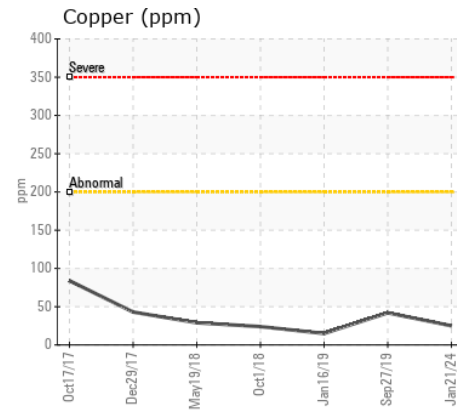
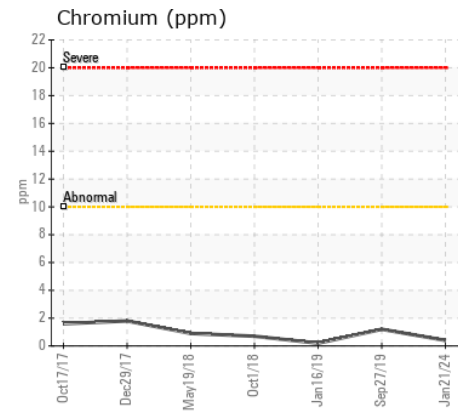
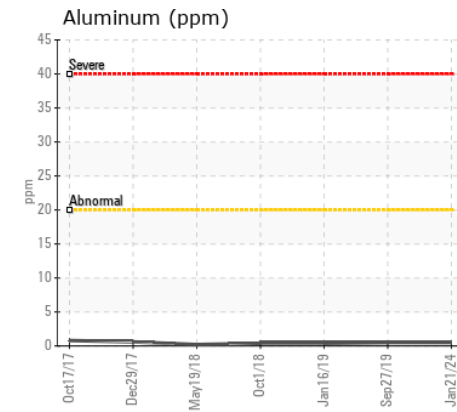
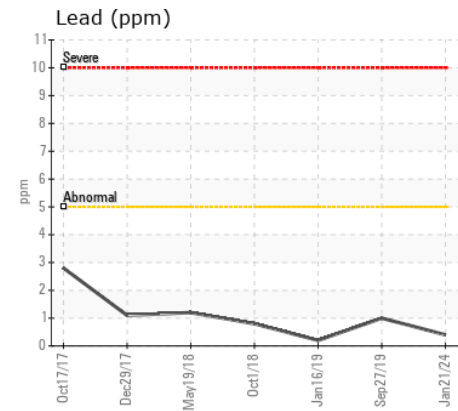
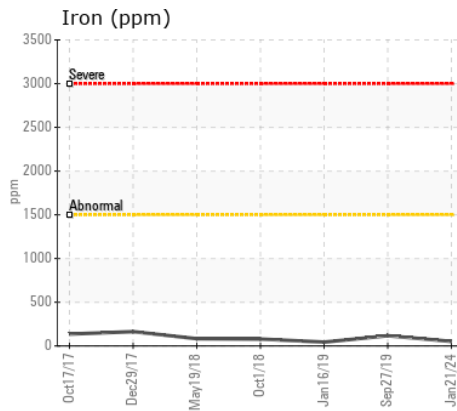
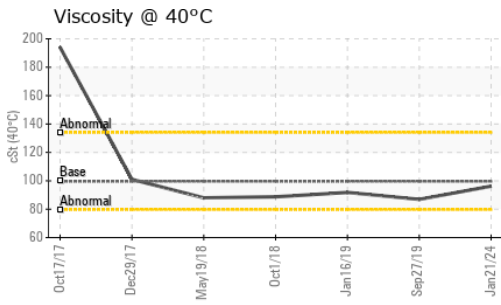
There is no indication of any contamination in the oil.

Silicon	ppm	ASTM D5185(m)	>60	<b>3</b>	5	2
Potassium	ppm	ASTM D5185(m)	>20	<b>&lt;1</b>	1	<1
Water		WC Method	>.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*	>.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>	0	<1
Boron	ppm	ASTM D5185(m)	328	<b>292</b>	291	289
Barium	ppm	ASTM D5185(m)	1	<b>&lt;1</b>	<1	0
Molybdenum	ppm	ASTM D5185(m)		<b>0</b>	0	<1
Manganese	ppm	ASTM D5185(m)		<b>&lt;1</b>	4	2
Magnesium	ppm	ASTM D5185(m)	1	<b>2</b>	2	3
Calcium	ppm	ASTM D5185(m)	7	<b>12</b>	7	8
Phosphorus	ppm	ASTM D5185(m)	1145	<b>2355</b>	3533	3367
Zinc	ppm	ASTM D5185(m)	3	<b>13</b>	38	19
Sulfur	ppm	ASTM D5185(m)	17909	<b>20010</b>	19695	19603
Visc @ 40°C	cSt	ASTM D7279(m)	99.6	<b>96.2</b>	86.9	91.8



**Laboratory** : WearCheck - C8-1175 Appleby Line, Burlington, ON L7L 5H9  
**Sample No.** : LH0278656 **Received** : 22 Jan 2024  
**Lab Number** : 02610354 **Diagnosed** : 22 Jan 2024  
**Unique Number** : 5711440 **Diagnostician** : Wes Davis  
**Test Package** : MOB 1

**CBM Aggregates**  
 135 West Beaver Creek Road  
 Richmond Hill, ON  
 CA L4B 4R7  
 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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