



# LIEBHERR

## OIL ANALYSIS REPORT

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



Machine Id  
**045705-1491**

Component  
**Swing Drive**

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>LH0288337</b>	LH0265684	LH0215202
Sample Date		Client Info		<b>05 May 2024</b>	01 Aug 2023	07 Dec 2021
Machine Age	hrs	Client Info		<b>5888</b>	4919	2976
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>	N/A	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)	>750	<b>178</b>	550	541
Chromium	ppm	ASTM D5185(m)	>10	<b>1</b>	6	6
Nickel	ppm	ASTM D5185(m)	>5	<b>&lt;1</b>	1	<1
Titanium	ppm	ASTM D5185(m)		<b>0</b>	<1	<1
Silver	ppm	ASTM D5185(m)		<b>0</b>	0	<1
Aluminum	ppm	ASTM D5185(m)	>20	<b>&lt;1</b>	4	<1
Lead	ppm	ASTM D5185(m)	>5	<b>&lt;1</b>	2	5
Copper	ppm	ASTM D5185(m)	>250	<b>49</b>	87	176
Tin	ppm	ASTM D5185(m)	>10	<b>&lt;1</b>	1	3
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

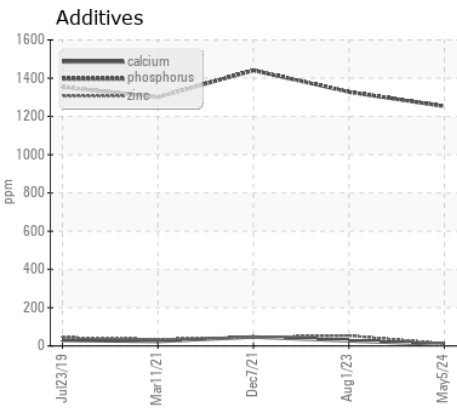
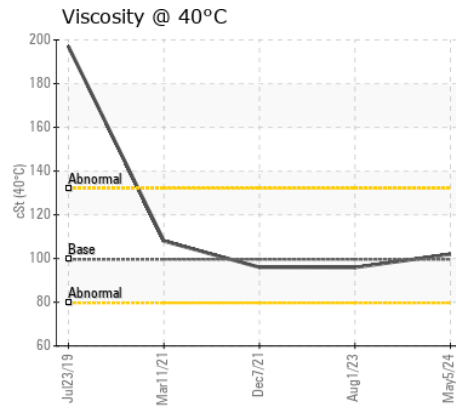
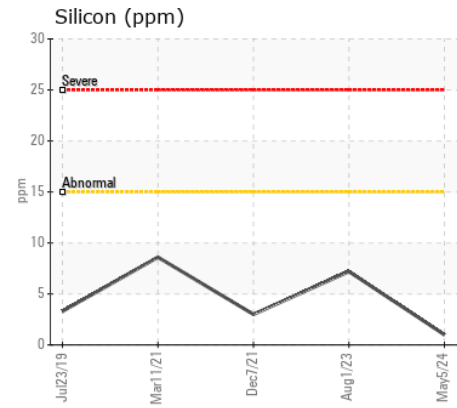
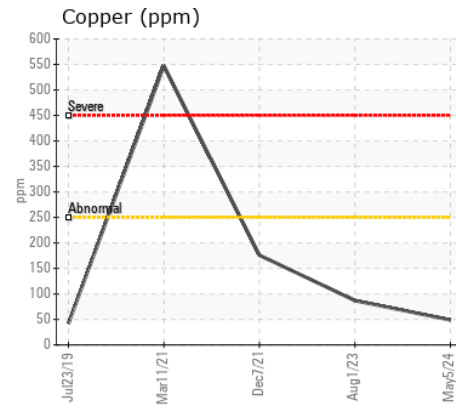
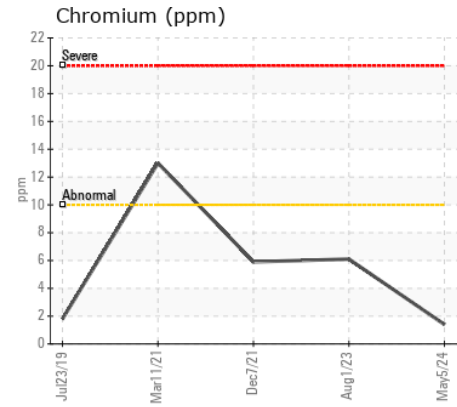
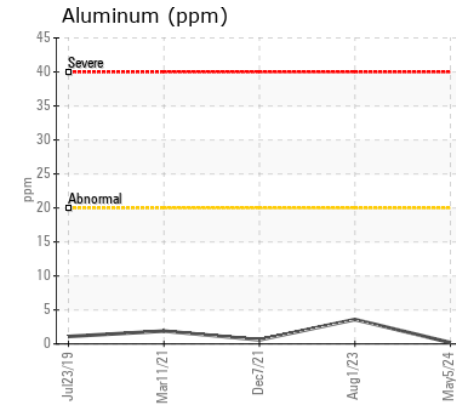
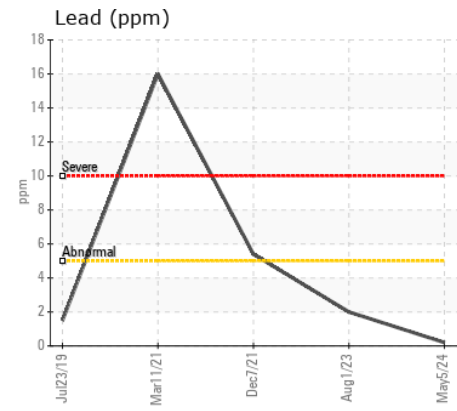
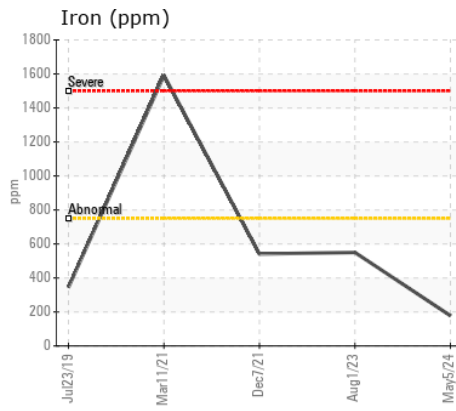
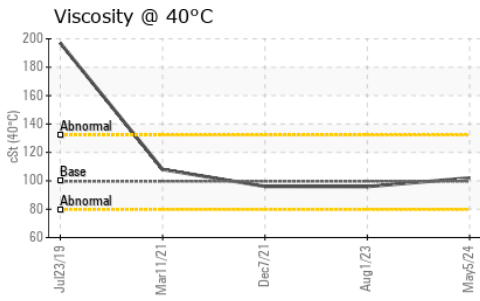
There is no indication of any contamination in the oil.

Silicon	ppm	ASTM D5185(m)	>15	<b>1</b>	7	3
Potassium	ppm	ASTM D5185(m)	>20	<b>6</b>	2	<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>VLITE</b>	VLITE	LIGHT
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>	3	1
Boron	ppm	ASTM D5185(m)	328	<b>309</b>	236	185
Barium	ppm	ASTM D5185(m)	1	<b>0</b>	0	0
Molybdenum	ppm	ASTM D5185(m)		<b>0</b>	<1	2
Manganese	ppm	ASTM D5185(m)		<b>1</b>	4	4
Magnesium	ppm	ASTM D5185(m)	1	<b>2</b>	4	14
Calcium	ppm	ASTM D5185(m)	7	<b>9</b>	27	47
Phosphorus	ppm	ASTM D5185(m)	1145	<b>1253</b>	1328	1441
Zinc	ppm	ASTM D5185(m)	3	<b>12</b>	54	45
Sulfur	ppm	ASTM D5185(m)	17909	<b>20895</b>	20339	22028
Visc @ 40°C	cSt	ASTM D7279(m)	99.6	<b>102</b>	95.9	96.0



**Laboratory** : WearCheck - C8-1175 Appleby Line, Burlington, ON L7L 5H9  
**Sample No.** : LH0288337 **Received** : 13 May 2024  
**Lab Number** : 02635022 **Tested** : 13 May 2024  
**Unique Number** : 5776175 **Diagnosed** : 13 May 2024 - Wes Davis  
**Test Package** : MOB 1

**American Iron and Metal**  
 1273 Kelly Lake Rd.  
 Sudbury, ON  
 CA P3E 5P5  
 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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