



# LIEBHERR

## OIL ANALYSIS REPORT

WEAR  
CONTAMINATION  
FLUID CONDITION

**ABNORMAL**

**NORMAL**

**NORMAL**



Machine Id  
**062579-1007**

Component  
**Front Right Wheel Hub**

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

### RECOMMENDATION

Nous avons pris note que la vidange d'huile a été effectuée au moment de l'échantillonnage. Nous vous recommandons d'échantillonner de nouveau dès que possible afin de contrôler la situation.

Test	UOM	Method	Limit/Abn	Current	History1	History2
Sample Number		Client Info		<b>LH</b>	LH0100613	LH0091504
Sample Date		Client Info		<b>09 Feb 2024</b>	01 Jun 2016	11 Nov 2015
Machine Age	hrs	Client Info		<b>0</b>	8042	6875
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>	Not Changd	Not Changd
Filter Changed		Client Info		<b>None</b>	N/A	N/A
Sample Status				<b>ABNORMAL</b>	ABNORMAL	ABNORMAL

### WEAR

Usure de palier et (ou) de douille.

Iron	ppm	ASTM D5185(m)	>450	<b>307</b>	219	159
Chromium	ppm	ASTM D5185(m)	>4	<b>2</b>	2	1
Nickel	ppm	ASTM D5185(m)	>2	<b>1</b>	<1	<1
Titanium	ppm	ASTM D5185(m)		<b>0</b>	<1	<1
Silver	ppm	ASTM D5185(m)		<b>0</b>	0	0
Aluminum	ppm	ASTM D5185(m)	>15	<b>3</b>	3	2
Lead	ppm	ASTM D5185(m)	>4	<b>3</b>	2	2
Copper	ppm	ASTM D5185(m)	>75	<b>▲ 83</b>	62	55
Tin	ppm	ASTM D5185(m)		<b>&lt;1</b>	<1	<1
Vanadium	ppm	ASTM D5185(m)		<b>0</b>	0	<1
White Metal	scalar	Visual*	NONE	<b>NONE</b>	VLITE	NONE
Yellow Metal	scalar	Visual*	NONE	<b>NONE</b>	NONE	NONE

### CONTAMINATION

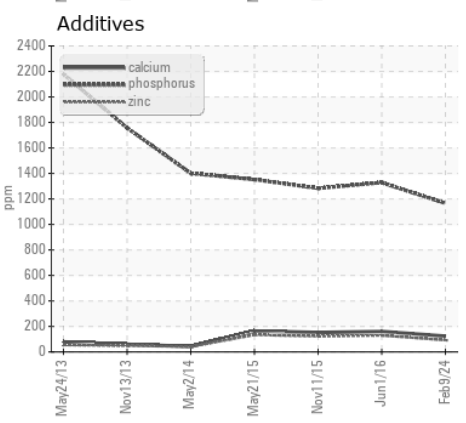
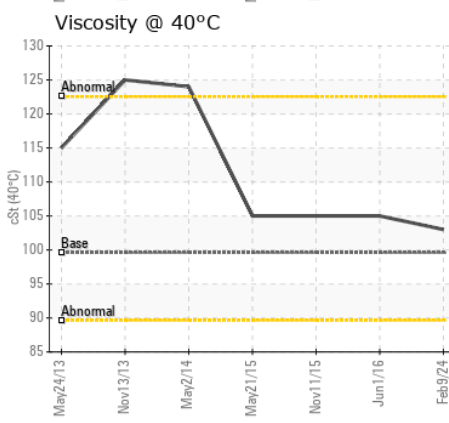
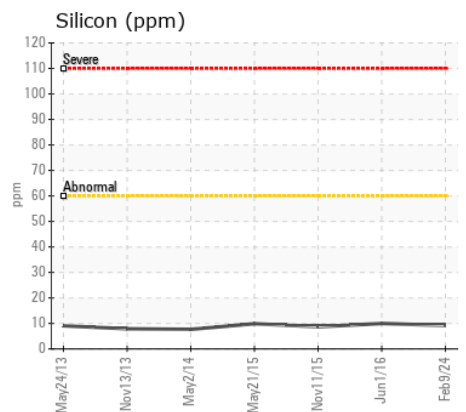
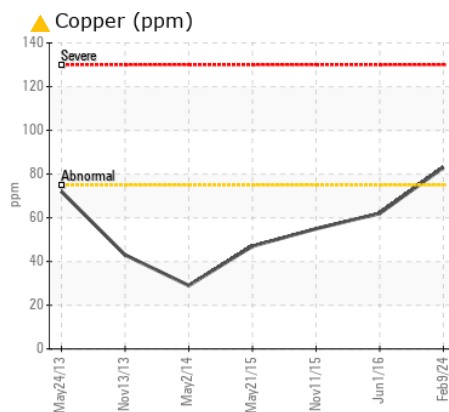
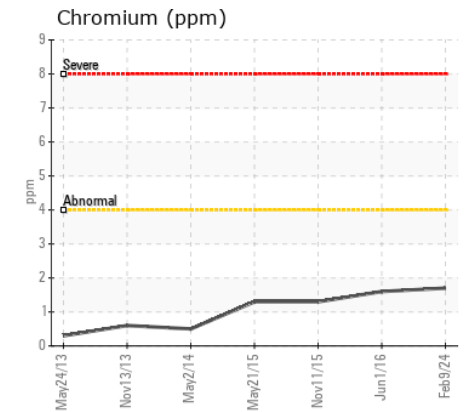
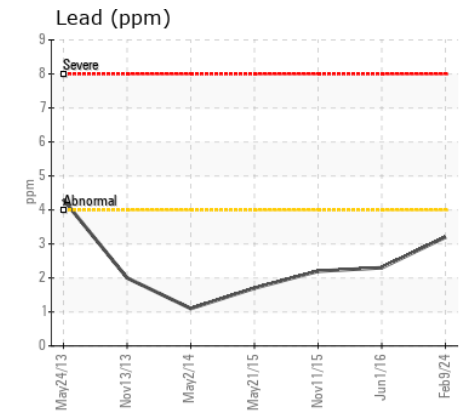
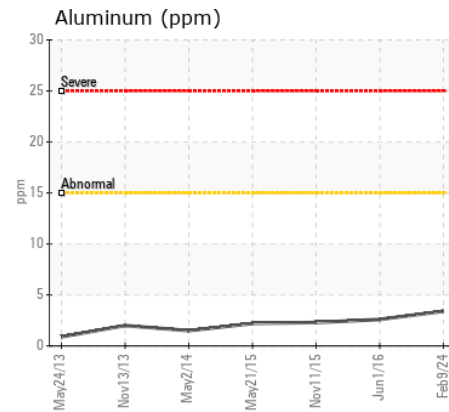
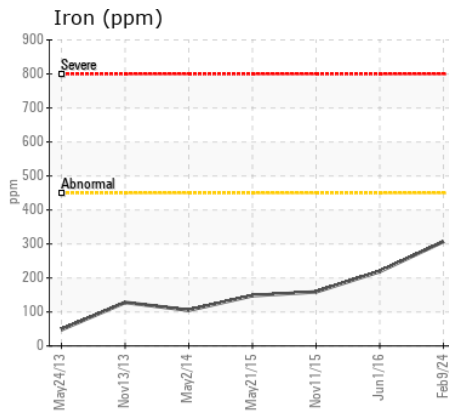
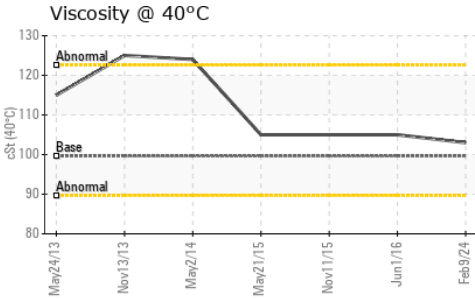
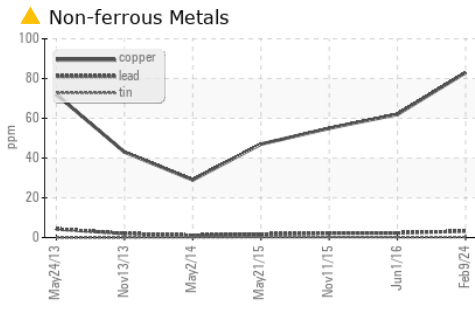
Il n'y a aucun indice de contamination dans l'huile.

Silicon	ppm	ASTM D5185(m)	>60	<b>9</b>	10	9
Potassium	ppm	ASTM D5185(m)	>20	<b>7</b>	7	7
Water		WC Method	>0.2	<b>NEG</b>	NEG	NEG
Silt	scalar	Visual*	NONE	<b>LIGHT</b>	NONE	VLITE
Debris	scalar	Visual*	NONE	<b>NONE</b>	VLITE	VLITE
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

l'huile n'est plus en état de service en raison d'une usure anormale et/ou sévère.

Sodium	ppm	ASTM D5185(m)		<b>10</b>	10	8
Boron	ppm	ASTM D5185(m)	328	<b>58</b>	102	96
Barium	ppm	ASTM D5185(m)	1	<b>2</b>	2	1
Molybdenum	ppm	ASTM D5185(m)		<b>0</b>	<1	<1
Manganese	ppm	ASTM D5185(m)		<b>7</b>	5	4
Magnesium	ppm	ASTM D5185(m)	1	<b>7</b>	8	8
Calcium	ppm	ASTM D5185(m)	7	<b>124</b>	161	153
Phosphorus	ppm	ASTM D5185(m)	1145	<b>1166</b>	1328	1283
Zinc	ppm	ASTM D5185(m)	3	<b>92</b>	129	122
Sulfur	ppm	ASTM D5185(m)	17909	<b>18074</b>	19673	20183
Visc @ 40°C	cSt	ASTM D7279(m)	99.6	<b>103</b>	▲ 105	▲ 105



**Laboratory** : WearCheck - C8-1175 Appleby Line, Burlington, ON L7L 5H9  
**Sample No.** : LH **Received** : 26 Feb 2024  
**Lab Number** : 02618135 **Tested** : 26 Feb 2024  
**Unique Number** : 5735245 **Diagnosed** : 26 Feb 2024 - Kevin Marson  
**Test Package** : MOB 1

**American Iron and Metal**  
 251 CHEMIN DES ILES  
 LEVIS, QC  
 CA G6V 1M5  
 Contact: Bobby Rochette

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.

T: (418)649-1000  
 F: