



# LIEBHERR

## OIL ANALYSIS REPORT

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



Area  
**(360807)**  
Machine Id  
**LIEBHERR PR726XL 018788-1330**  
Component  
**Diesel Engine**  
Fluid  
**PETRO CANADA SUPREME 5W30 (--- GAL)**

### RECOMMENDATION

Resample at the next service interval to monitor.

Test	UOM	Method	Limit/Abn	Current	History1	History2
Sample Number		Client Info		<b>LH0281302</b>	LH0277586	LH0265544
Sample Date		Client Info		<b>19 Mar 2024</b>	20 Oct 2023	27 Aug 2023
Machine Age	hrs	Client Info		<b>3055</b>	2546	2368
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	NORMAL

### WEAR

All component wear rates are normal.

Iron	ppm	ASTM D5185(m)	>100	<b>7</b>	4	9
Chromium	ppm	ASTM D5185(m)	>5	<b>0</b>	0	<1
Nickel	ppm	ASTM D5185(m)	>5	<b>&lt;1</b>	0	0
Titanium	ppm	ASTM D5185(m)		<b>0</b>	0	0
Silver	ppm	ASTM D5185(m)	>3	<b>0</b>	<1	<1
Aluminum	ppm	ASTM D5185(m)	>15	<b>2</b>	1	1
Lead	ppm	ASTM D5185(m)	>30	<b>&lt;1</b>	<1	2
Copper	ppm	ASTM D5185(m)	>125	<b>28</b>	7	19
Tin	ppm	ASTM D5185(m)	>5	<b>&lt;1</b>	<1	1
Vanadium	ppm	ASTM D5185(m)		<b>0</b>	0	0

### CONTAMINATION

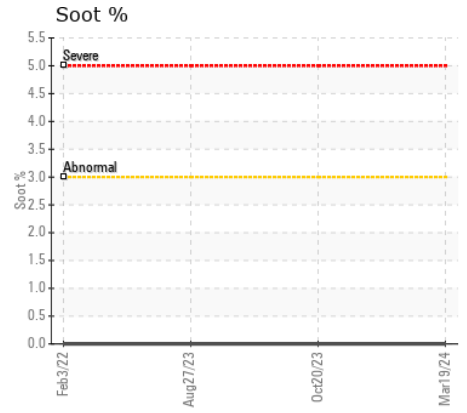
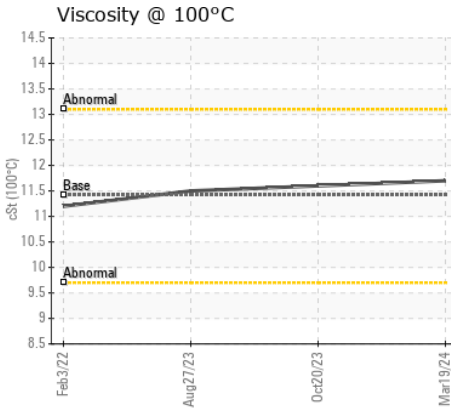
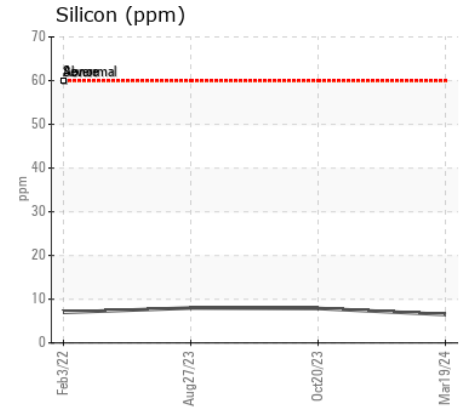
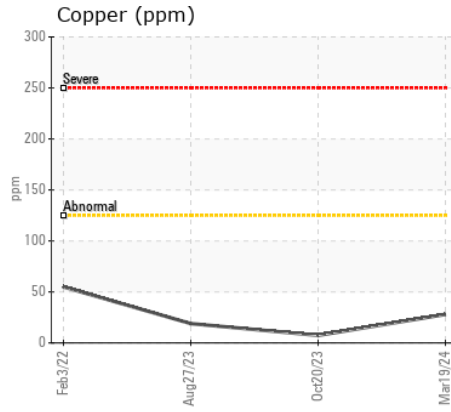
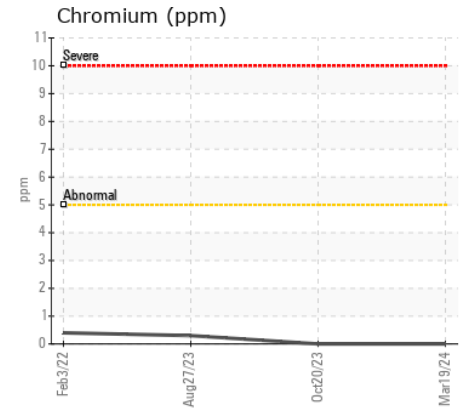
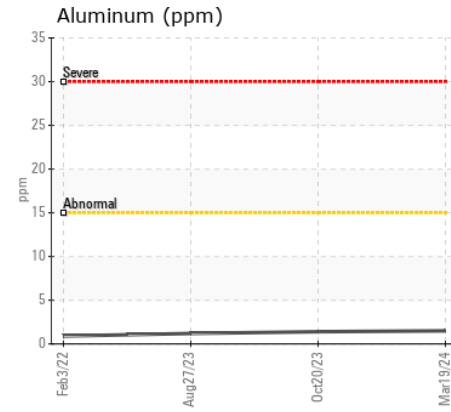
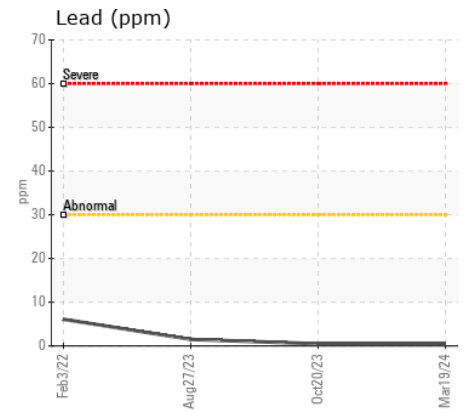
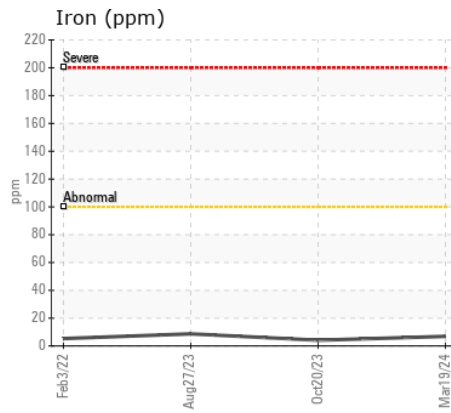
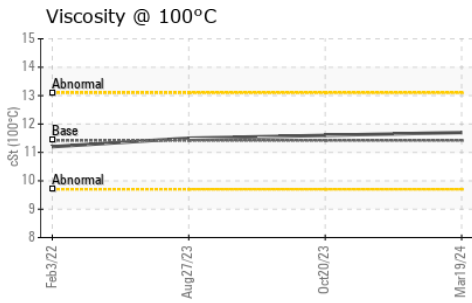
Elevated aluminum (Al) and/or lead (Pb) and potassium (K) levels in your metals analysis are likely a result of solder flux release into the lubricant and is common on new equipment/components. There is no indication of any contamination in the oil.

Silicon	ppm	ASTM D5185(m)	>60	<b>6</b>	8	8
Potassium	ppm	ASTM D5185(m)	>20	<b>5</b>	3	3
Fuel		WC Method	>5	<b>&lt;1.0</b>	<1.0	<1.0
Water		WC Method	>0.2	<b>NEG</b>	NEG	NEG
Glycol		WC Method		<b>NEG</b>	NEG	NEG
Soot %	%	ASTM D7844*	>3	<b>0</b>	0	0
Nitration	Abs/cm	ASTM D7624*	>20	<b>11.5</b>	9.3	11.3
Sulfation	Abs/.1mm	ASTM D7415*	>30	<b>24.0</b>	20.5	25.2
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>10</b>	9	8
Boron	ppm	ASTM D5185(m)	186	<b>24</b>	35	21
Barium	ppm	ASTM D5185(m)	<1	<b>&lt;1</b>	<1	<1
Molybdenum	ppm	ASTM D5185(m)	79	<b>61</b>	58	62
Manganese	ppm	ASTM D5185(m)	0	<b>0</b>	0	<1
Magnesium	ppm	ASTM D5185(m)	578	<b>1093</b>	1135	1116
Calcium	ppm	ASTM D5185(m)	1002	<b>816</b>	830	830
Phosphorus	ppm	ASTM D5185(m)	745	<b>864</b>	1039	941
Zinc	ppm	ASTM D5185(m)	837	<b>1142</b>	1215	1163
Sulfur	ppm	ASTM D5185(m)	2502	<b>2601</b>	2800	2637
Oxidation	Abs/.1mm	ASTM D7414*	>25	<b>23.2</b>	18.8	23.5
Visc @ 100°C	cSt	ASTM D7279(m)	11.42	<b>11.7</b>	11.6	11.5



**Laboratory** : WearCheck - C8-1175 Appleby Line, Burlington, ON L7L 5H9  
**Sample No.** : LH0281302  
**Lab Number** : 02625135  
**Unique Number** : 5750254  
**Test Package** : MOB 1  
**Received** : 28 Mar 2024  
**Tested** : 28 Mar 2024  
**Diagnosed** : 28 Mar 2024 - Kevin Marson

**CITY OF NORTH BAY**  
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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.