



# LIEBHERR

## OIL ANALYSIS REPORT

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



Machine Id  
**LIEBHERR 075959-1005**  
Component  
**Transmission**  
Fluid  
**SAE 10W40 (--- GAL)**

### RECOMMENDATION

Resample at the next service interval to monitor.

### WEAR

All component wear rates are normal.

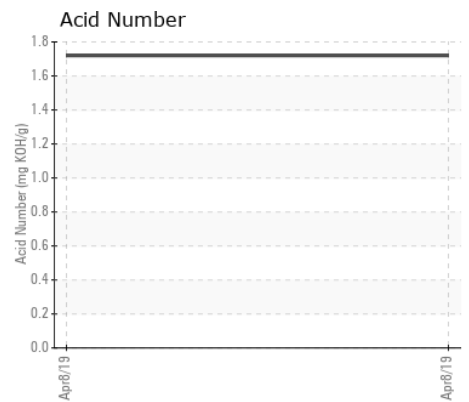
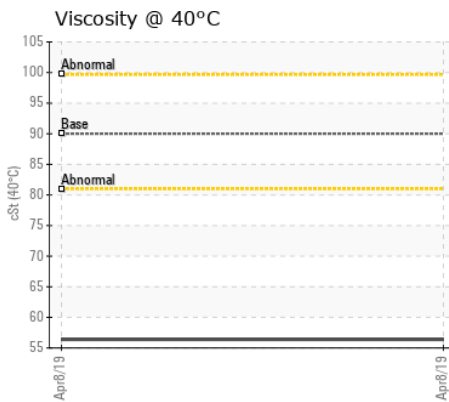
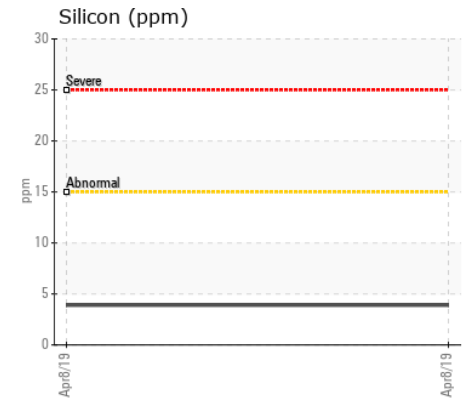
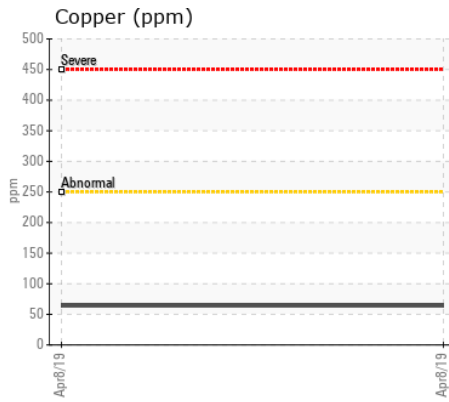
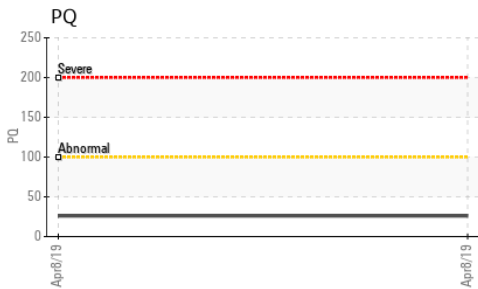
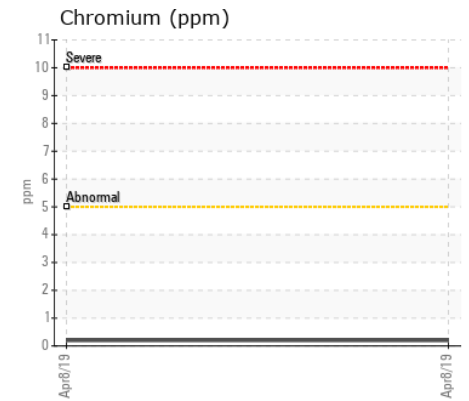
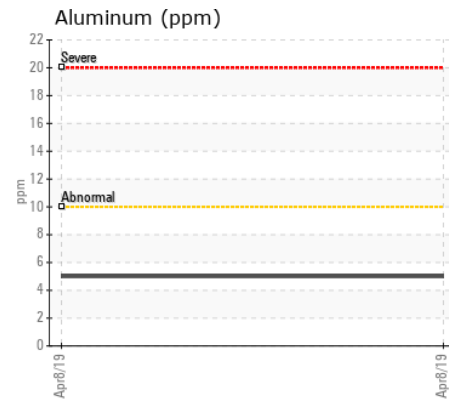
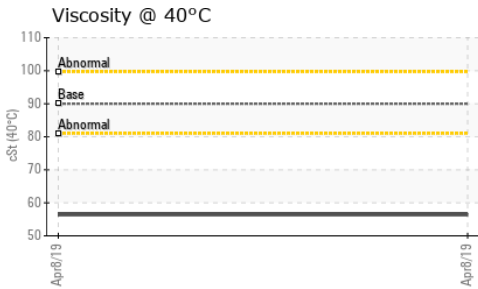
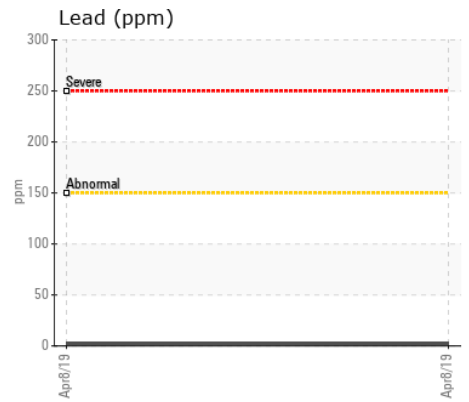
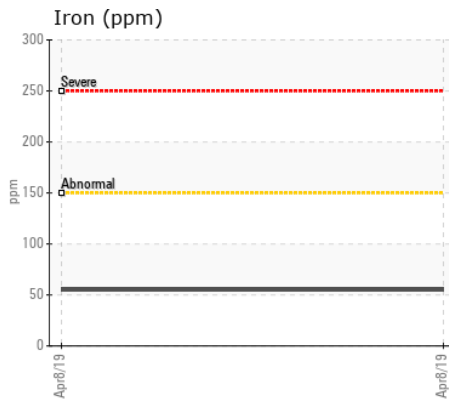
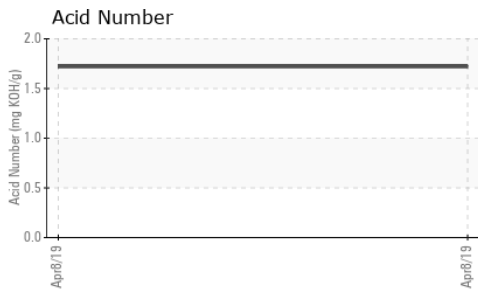
### CONTAMINATION

There is no indication of any contamination in the fluid.

### FLUID CONDITION

Viscosity of sample indicates oil is within SAE 20 range, advise investigate. The AN level is acceptable for this fluid. The condition of the fluid is suitable for further service.

Test	UOM	Method	Limit/Abn	Current	History1	History2
Sample Number		Client Info		<b>LH0107905</b>	---	---
Sample Date		Client Info		<b>08 Apr 2019</b>	---	---
Machine Age	hrs	Client Info		<b>1894</b>	---	---
Oil Age	hrs	Client Info		<b>0</b>	---	---
Filter Age	hrs	Client Info		<b>0</b>	---	---
Oil Changed		Client Info		<b>Not Changd</b>	---	---
Filter Changed		Client Info		<b>N/A</b>	---	---
Sample Status				<b>NORMAL</b>	---	---
PQ		ASTM D8184*		<b>26</b>	---	---
Iron	ppm	ASTM D5185(m)	>150	<b>55</b>	---	---
Chromium	ppm	ASTM D5185(m)	>5	<b>&lt;1</b>	---	---
Nickel	ppm	ASTM D5185(m)	>5	<b>&lt;1</b>	---	---
Titanium	ppm	ASTM D5185(m)		<b>0</b>	---	---
Silver	ppm	ASTM D5185(m)		<b>0</b>	---	---
Aluminum	ppm	ASTM D5185(m)	>10	<b>5</b>	---	---
Lead	ppm	ASTM D5185(m)	>150	<b>2</b>	---	---
Copper	ppm	ASTM D5185(m)	>250	<b>64</b>	---	---
Tin	ppm	ASTM D5185(m)	>5	<b>&lt;1</b>	---	---
Vanadium	ppm	ASTM D5185(m)		<b>&lt;1</b>	---	---
White Metal	scalar	Visual*	NONE	<b>NONE</b>	---	---
Yellow Metal	scalar	Visual*	NONE	<b>NONE</b>	---	---
Silicon	ppm	ASTM D5185(m)	>15	<b>4</b>	---	---
Potassium	ppm	ASTM D5185(m)	>20	<b>2</b>	---	---
Water		WC Method	>0.1	<b>NEG</b>	---	---
Silt	scalar	Visual*	NONE	<b>NONE</b>	---	---
Debris	scalar	Visual*	NONE	<b>VLITE</b>	---	---
Sand/Dirt	scalar	Visual*	NONE	<b>NONE</b>	---	---
Appearance	scalar	Visual*	NORML	<b>NORML</b>	---	---
Odor	scalar	Visual*	NORML	<b>NORML</b>	---	---
Emulsified Water	scalar	Visual*	>0.1	<b>NEG</b>	---	---
Sodium	ppm	ASTM D5185(m)	>401	<b>17</b>	---	---
Boron	ppm	ASTM D5185(m)		<b>4</b>	---	---
Barium	ppm	ASTM D5185(m)		<b>&lt;1</b>	---	---
Molybdenum	ppm	ASTM D5185(m)		<b>30</b>	---	---
Manganese	ppm	ASTM D5185(m)		<b>15</b>	---	---
Magnesium	ppm	ASTM D5185(m)		<b>464</b>	---	---
Calcium	ppm	ASTM D5185(m)		<b>2076</b>	---	---
Phosphorus	ppm	ASTM D5185(m)		<b>1053</b>	---	---
Zinc	ppm	ASTM D5185(m)		<b>1158</b>	---	---
Sulfur	ppm	ASTM D5185(m)		<b>5676</b>	---	---
Acid Number (AN)	mg KOH/g	ASTM D974*		<b>1.72</b>	---	---
Visc @ 40°C	cSt	ASTM D7279(m)	90.0	<b>56.4</b>	---	---



**Laboratory** : WearCheck - C8-1175 Appleby Line, Burlington, ON L7L 5H9  
**Sample No.** : LH0107905  
**Lab Number** : 02278988  
**Unique Number** : 4850227  
**Test Package** : MOB 2 ( Additional Tests: PQ, TAN Man )

**The Corporation of the Township of Hamilton**  
 8285 Majestic Hills Drive  
 Cobourg, ON  
 CA K9A 4J7  
 Contact: Craig McMurray  
 cmcmurray@hamiltontownship.ca  
 T: (905)342-2810  
 F: (905)342-2659

*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.*