## **CONSTRUCTION EQUIPMENT**



Sample No: LH0257432

Oil Type: PETRO CANADA ATF DEXRON III/MERCON

_					
U SAMP	PLE INFOR <i>I</i>	MATION			
Sample Number		LH0257432	LH	LH0178194	LH
Sample Date		14 Sep 2023	31 Oct 2020	13 Oct 2020	02 Sep 2020
Machine Hours		13830	9931	9930	9458
Oil Hours		0	0	0	0
Oil Changed		Changed	Changed	Not Changd	Changed
Sample Status		NORMAL	NORMAL	NORMAL	NORMAL
<u> </u>					
OIL CO	ONDITION				
Visc @ 40°C	cSt	○ 30.3	29.5	29.8	28.8
CONT	AMINATIO	N			
Silicon	ppm	<b>3</b>	O 2	O 2	O 1
Sodium	ppm	<b>6</b>	O 2	O 2	O 2
Potassium	ppm	<b>3</b>	O <1	O <1	O <1
WEAL	RMETALS				
Iron	ppm	<b>118</b>	O 11	<b>9</b>	○ 21
Copper		<b>1</b>	O <1	O <1	0 <1
Coppei	ppm	<b>.</b>		-	O 1.
Lead	ppm	<b>3</b>	O 1	<b>1</b>	O 2
		-	<ul><li>○ 1</li><li>○ &lt;1</li></ul>	-	-
Lead	ppm	<b>3</b>	○ <1 ○ 13	0 1 0 0 0 12	O 2
Lead Tin	ppm ppm	<ul><li>3</li><li>0</li></ul>	O <1	<ul><li>○ 1</li><li>○ 0</li></ul>	© 2 © 0
Lead Tin Aluminum Chromium Molybdenum	ppm ppm ppm	3 0 0 4	○ <1 ○ 13	0 1 0 0 0 12	© 2 © 0 © 6 © <1 © <1
Lead Tin Aluminum Chromium	ppm ppm ppm	3 0 0 4 0 <1 0 <1	○ <1 ○ 13 ○ 0 ○ <1 ○ <1	0 1 0 0 12 0 0 < 1 0 0 0	② 2 ③ 0 ③ 6 ③ <1 ③ <1 ③ 0
Lead Tin Aluminum Chromium Molybdenum	ppm ppm ppm ppm ppm	3 0 0 4 0 <1 0 <1 0 <1	○ <1 ○ 13 ○ 0 ○ <1	0 1 0 0 12 0 0 < 1 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	© 2 © 0 © 6 © <1 © <1
Lead Tin Aluminum Chromium Molybdenum Nickel Titanium Silver	ppm ppm ppm ppm ppm ppm	3 0 0 4 0 <1 0 <1 0 <1 0	○ <1 ○ 13 ○ 0 ○ <1 ○ <1	0 1 0 0 12 0 0 < 1 0 0 0	② 2 ③ 0 ③ 6 ③ <1 ③ <1 ③ 0
Lead Tin Aluminum Chromium Molybdenum Nickel Titanium Silver Manganese	ppm ppm ppm ppm ppm ppm ppm	<ul> <li>3</li> <li>0</li> <li>4</li> <li>&lt;1</li> <li>&lt;1</li> <li>&lt;1</li> <li>0</li> <li>0</li> <li>1</li> </ul>	○ <1 ○ 13 ○ 0 ○ <1 ○ <1 ○ <1 ○ <1 ○ <1	0 1 0 0 12 0 0 0 0 0 0 0 0 0 0 0 0 0 0 1	© 2 © 0 © 6 © <1 © <1 © 0 0 0 <1 © <1
Lead Tin Aluminum Chromium Molybdenum Nickel Titanium Silver	ppm ppm ppm ppm ppm ppm ppm ppm	3 0 0 4 0 <1 0 <1 0 <1 0	○ <1 ○ 13 ○ 0 ○ <1 ○ <1 ○ <1 ○ <1	0 1 0 0 12 0 0 < 1 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	© 2 © 0 © 6 © <1 © <1 © 0 0
Lead Tin Aluminum Chromium Molybdenum Nickel Titanium Silver Manganese	ppm	<ul> <li>3</li> <li>0</li> <li>4</li> <li>&lt;1</li> <li>&lt;1</li> <li>&lt;1</li> <li>0</li> <li>0</li> <li>1</li> </ul>	○ <1 ○ 13 ○ 0 ○ <1 ○ <1 ○ <1 ○ <1 ○ <1	0 1 0 0 12 0 0 0 0 0 0 0 0 0 0 0 0 0 0 1	© 2 © 0 © 6 © <1 © <1 © 0 0 0 <1 © <1
Lead Tin Aluminum Chromium Molybdenum Nickel Titanium Silver Manganese Vanadium	ppm	<ul> <li>3</li> <li>0</li> <li>4</li> <li>&lt;1</li> <li>&lt;1</li> <li>&lt;1</li> <li>0</li> <li>0</li> <li>1</li> </ul>	○ <1 ○ 13 ○ 0 ○ <1 ○ <1 ○ <1 ○ <1 ○ <1	0 1 0 0 12 0 0 0 0 0 0 0 0 0 0 0 0 0 0 1	© 2 © 0 © 6 © <1 © <1 © 0 0 0 <1 © <1
Lead Tin Aluminum Chromium Molybdenum Nickel Titanium Silver Manganese Vanadium ADDI	ppm	3 0 0 4 0<1 0<1 0 0 0 0 0	○ <1 ○ 13 ○ 0 ○ <1 ○ <1 ○ <1 ○ <1 ○ <1	0 1 0 0 12 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	© 2 © 0 © 6 © <1 © 0 0 0 <1 © <1 © <1
Lead Tin Aluminum Chromium Molybdenum Nickel Titanium Silver Manganese Vanadium  Calcium	ppm	3 0 0 4 0<1 0<1 0 0 0 1 0	○ <1 ○ 13 ○ 0 ○ <1 ○ <1 ○ <1 ○ <1 ○ <1 ○ <1	0 1 0 0 12 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	2 0 0 6 6 0 <1 0 0 0 0 0 <1 0 <1 0 <1
Lead Tin Aluminum Chromium Molybdenum Nickel Titanium Silver Manganese Vanadium  Calcium Magnesium	ppm	3 0 4 <	○ <1 ○ 13 ○ 0 ○ <1 ○ <1 ○ <1 ○ <1 ○ <1 ○ <1 ○ 8	1 0 0 0 12 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	2 0 0 6 6 0 <1 0 0 0 0 0 <1 0 <1 0 <1 0 <1
Lead Tin Aluminum Chromium Molybdenum Nickel Titanium Silver Manganese Vanadium  Calcium Magnesium Zinc	ppm	<ul> <li>3</li> <li>0</li> <li>4</li> <li>&lt;1</li> <li>&lt;1</li> <li>0</li> <li>0</li> <li>1</li> <li>0</li> </ul> 504 <ul> <li>5</li> <li>200</li> </ul>	○ <1 ○ 13 ○ 0 ○ <1 ○ <1 ○ <1 ○ <1 ○ <1 ○ <1 ○ <1 ○ 8 28	1 0 0 0 12 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	2 0 0 6 6 0 <1 0 0 0 0 0 <1 0 <1 0 0



**Summit Aggregates** 2686 Greenfield Blvd. Ayr, ON CA N0B 1E0 Contact: Greg . greg@summitagg.com T: (226)791-0161 F:

### Diagnosis

Confirm the source of the lubricant being utilized for top-up/fill. Resample at the next service interval to monitor. All component wear rates are normal. There is no indication of any contamination in the fluid. Additive levels indicate the addition of a different brand, or type of fluid. The condition of the fluid is acceptable for the time in service.

Depot: SUMAYR Unique No: 5643953 Signed: Wes Davis **Report Date:** 15 Sep 2023

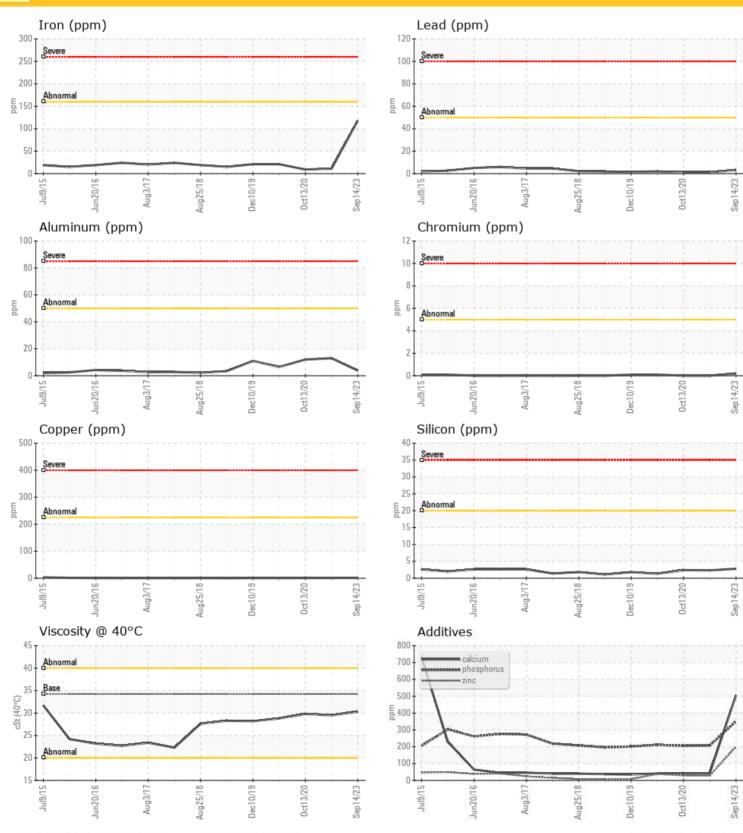
# LIEBHERR

**CONSTRUCTION EQUIPMENT** 





#### **GRAPHS**



Report Id: SUMAYR [WCAMIS] 02582888 (Generated: 09/15/2023 15:09:59) Rev: 1

Submitted By: Rick Cule