# LIEBHERR

**CONSTRUCTION EQUIPMENT** 

## LIEBHERR A934BHD 030424-1007 - Swing Drive

Sample No: LH0246602
Oil Type: ESSO 75W90

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SAMPLE INFORMATION								
Sample Number	LH0246602	LH0087777	LHP0030280					
Sample Date	14 Sep 2023	09 Apr 2015	25 Apr 2008					
Machine Hours	0	10371	3000					
Oil Hours	0	0	0					
Oil Changed	Changed	Changed	Changed					
Sample Status	ABNORMAL	NORMAL	NORMAL					
A								

OILCO	<b>NDITION</b>				
Visc @ 40°C	cSt	<b>86.7</b>	○ 87.3	179	

CONT	AMINATIO	ON			
Water	%		0.068		
Silicon	ppm	<b>5</b>	O 2	<b>1</b>	
Sodium	ppm	<b>3</b>	O 2	<b>3</b>	
Potassium	ppm	<b>0</b>	O <1	O 2	

(O) WEA					
WEA	R META	LS			
Iron	ppm	<b>1230</b>	O 724	O 202	
Copper	ppm	<b>25</b>	<b>83</b>	O 112	
Lead	ppm	<b>()</b> <1	O 2	O 1	
Tin	ppm	<b>○</b> <1	<b>O</b> 4	<b>10</b>	
Aluminum	ppm	<b>○</b> <1	O <1	O <1	
Chromium	ppm	<u> </u>	<b>3</b>	O 1	
Molybdenum	ppm	<b>1</b>	<b>0</b>	<1	
Nickel	ppm	<b>O</b> 3	O <1	<1	
Titanium	ppm	0	0	0	
Silver	ppm	<1	0	0	
Manganese	ppm	<b>10</b>	0 8	4	
Vanadium	ppm	<1	0	0	

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	ITIVES				
Calcium	ppm	<b>14</b>	23	62	
Magnesium	ppm	<b>2</b>	O <1	1	
Zinc	ppm	<b>16</b>	O 54	43	
Phosphorus	ppm	2208	1796	2224	
Barium	ppm	<b>0</b>	O 0	6	
Boron	ppm	72	16	28	



#### **Resolute Forest Products**

1 Park Street, C/O MECH OILERS Iroquois Falls, ON CA P0K 1E0 Contact: Ron Rioux

T: (705)258-3931 F: (705)258-3677

### Diagnosis

The oil change at the time of sampling has been noted. We recommend an early resample to monitor this condition. Chromium, nickel and antimony ppm levels are abnormal. There is no indication of any contamination in the oil. The oil is no longer serviceable as a result of the abnormal and/or severe wear.

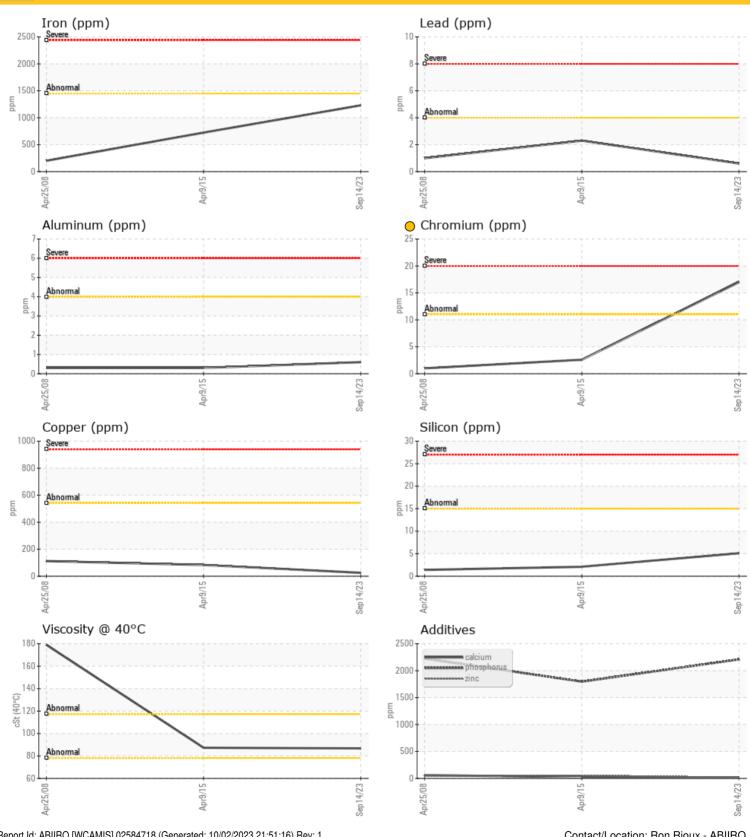
Depot:ABIIROUnique No:5645783Signed:Bill QuesnelReport Date:25 Sep 2023

Contact/Location: Ron Rioux - ABIIRO





#### **GRAPHS**



Report Id: ABIIRO [WCAMIS] 02584718 (Generated: 10/02/2023 21:51:16) Rev: 1

Contact/Location: Ron Rioux - ABIIRO