

# LIEBHERR

## CONSTRUCTION EQUIPMENT



### LIEBHERR R936LC 048600-1490 - Swing Drive

Sample No: LH0288280

Oil Type: LIEBHERR SYNTOGEAR PLUS 75W-90



#### Sample Information

Sample Number	LH0288280	LH0177988	LH0162702	---
Sample Date	15 Apr 2024	27 Oct 2020	11 Feb 2020	---
Machine Hours	2927	1027	501	---
Oil Hours	0	0	0	---
Oil Changed	Not Chngd	Changed	Changed	---
Sample Status	SEVERE	NORMAL	NORMAL	---

**COLOURED AGGREGATES INC.**  
 158 DON HILLOCK DRIVE,, UNIT 12-13  
 AURORA, ON  
 CA L4G 0H6  
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 T: (416)491-0230  
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#### Oil Condition

Visc @ 40°C	cSt	105	193	195	---
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#### Contamination

Water	%	NEG	NEG	NEG	---
Silicon	ppm	<1	3	4	---
Sodium	ppm	2	6	5	---
Potassium	ppm	<1	1	1	---



#### Wear Metals

Iron	ppm	299	318	403	---
Copper	ppm	250	75	55	---
Lead	ppm	6	2	1	---
Tin	ppm	25	4	1	---
Aluminum	ppm	0	<1	<1	---
Chromium	ppm	1	2	2	---
Molybdenum	ppm	0	3	3	---
Nickel	ppm	<1	<1	<1	---
Titanium	ppm	0	0	<1	---
Silver	ppm	0	<1	<1	---
Manganese	ppm	2	2	3	---
Vanadium	ppm	0	0	0	---



#### Additives

Calcium	ppm	18	23	25	---
Magnesium	ppm	2	<1	1	---
Zinc	ppm	50	20	18	---
Phosphorus	ppm	1342	1522	1430	---
Barium	ppm	2	6	8	---
Boron	ppm	220	2	2	---

#### Diagnosis

We recommend that you drain the oil from the component if this has not already been done. We recommend an early resample to monitor this condition. Tin ppm levels are severe. Copper and lead ppm levels are abnormal. Bearing and/or bushing wear is indicated. 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: COL158AUR  
 Unique No: 5762847  
 Signed: Kevin Marson  
 Report Date: 17 Apr 2024



### Graphs

