

# LIEBHERR

## CONSTRUCTION EQUIPMENT



### LIEBHERR R954 954R - Swing Drive

Sample No: LH0265883

Oil Type: PETRO CANADA TRAXON SYNTHETIC 75W90



**Gerdau - Mandak Metal Processors Ltd.,**  
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#### SAMPLE INFORMATION

Sample Number	LH0265883	LH0199530	LH0234375	LH0234374
Sample Date	31 Aug 2023	14 Apr 2023	09 Mar 2023	09 Mar 2023
Machine Hours	0	0	0	0
Oil Hours	0	0	0	0
Oil Changed	Changed	Changed	Changed	Changed
Sample Status	NORMAL	NORMAL	ABNORMAL	NORMAL



#### OIL CONDITION

Visc @ 40°C	cSt	105	108	96.2	86.0
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#### CONTAMINATION

Silicon	ppm	6	3	11	3
Sodium	ppm	1	<1	3	<1
Potassium	ppm	<1	1	<1	<1



#### WEAR METALS

PQ		---	---	16	---
Iron	ppm	572	112	1120	12
Copper	ppm	72	22	199	<1
Lead	ppm	4	<1	6	0
Tin	ppm	1	<1	3	0
Aluminum	ppm	<1	<1	2	<1
Chromium	ppm	3	<1	6	0
Molybdenum	ppm	1	<1	2	0
Nickel	ppm	1	<1	2	0
Titanium	ppm	0	0	<1	0
Silver	ppm	0	0	0	0
Manganese	ppm	3	<1	8	<1
Vanadium	ppm	0	0	0	0



#### ADDITIVES

Calcium	ppm	26	10	35	22
Magnesium	ppm	13	5	29	6
Zinc	ppm	36	11	67	135
Phosphorus	ppm	1103	1163	1286	1107
Barium	ppm	0	0	0	0
Boron	ppm	89	149	183	171

#### 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 oil. Additive levels indicate the addition of a different brand, or type of oil. The condition of the oil is acceptable for the time in service.

Depot: MANSEL  
 Unique No: 5642543  
 Signed: Wes Davis  
 Report Date: 11 Sep 2023



### GRAPHS

