

LIEBHERR

CONSTRUCTION EQUIPMENT



[[20230430]] LIEBHERR R934C 020477-027 - Swing Drive

Sample No: LH0265899

Oil Type: GEAR OIL SAE 80W90



Orloff Enterprises
410 King Street
Winnipeg, MB
CA R2W 5H8
Contact: Service Manager



SAMPLE INFORMATION

Sample Number	LH0265899	LH0095234	---	---
Sample Date	16 Aug 2023	06 Oct 2015	---	---
Machine Hours	13977	8200	---	---
Oil Hours	0	0	---	---
Oil Changed	Changed	N/A	---	---
Sample Status	NORMAL	SEVERE	---	---



OIL CONDITION

Visc @ 40°C	cSt	● 138	● 146	---	---
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T:
F:



CONTAMINATION

Water	%	---	● 1.584	---	---
Silicon	ppm	● 6	● <1	---	---
Sodium	ppm	● 3	● 0	---	---
Potassium	ppm	● 2	● 2	---	---

Diagnosis

Resample at the next service interval to monitor. All component wear rates are normal. There is no indication of any contamination in the oil. The condition of the oil is acceptable for the time in service.



WEAR METALS

Iron	ppm	● 36	● 338	---	---
Copper	ppm	● 2	● 13	---	---
Lead	ppm	● <1	● <1	---	---
Tin	ppm	● 0	● 8	---	---
Aluminum	ppm	● 2	● <1	---	---
Chromium	ppm	● <1	● 3	---	---
Molybdenum	ppm	● 0	● <1	---	---
Nickel	ppm	● <1	● <1	---	---
Titanium	ppm	0	0	---	---
Silver	ppm	<1	0	---	---
Manganese	ppm	● <1	● 2	---	---
Vanadium	ppm	0	0	---	---



ADDITIVES

Calcium	ppm	415	● 10	---	---
Magnesium	ppm	● 5	● 3	---	---
Zinc	ppm	● 178	● 18	---	---
Phosphorus	ppm	● 1977	● 2120	---	---
Barium	ppm	● 0	● 0	---	---
Boron	ppm	● 53	● 2	---	---

Depot: ORLWIN
Unique No: 5630618
Signed: Kevin Marson
Report Date: 23 Aug 2023



GRAPHS

