

LIEBHERR

CONSTRUCTION EQUIPMENT



LIEBHERR R920 055158-1705 - Swing Drive

Sample No: LH0269719

Oil Type: LIEBHERR GEAR BASIC 90 LS



SAMPLE INFORMATION

Sample Number	LH0269719	---	---	---
Sample Date	16 Sep 2023	---	---	---
Machine Hours	720	---	---	---
Oil Hours	0	---	---	---
Oil Changed	Changed	---	---	---
Sample Status	SEVERE	---	---	---

IDEAL EARTH WORKS INC
 54229 RANGE RD. 262
 STURGEON COUNTY, AB
 CA T8T 0Z5
 Contact: Service Manager



OIL CONDITION

Visc @ 40°C	cSt	● 184	---	---	---
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T:
F:



CONTAMINATION

Silicon	ppm	● 27	---	---	---
Sodium	ppm	● 6	---	---	---
Potassium	ppm	● 2	---	---	---

Diagnosis

We advise that you check all areas where dirt can enter the system. The oil change at the time of sampling has been noted. We recommend an early resample to monitor this condition. Tin ppm levels are abnormal. Aluminum ppm levels are noted. Bearing and/or bushing wear is indicated. Elemental levels of silicon (Si) and aluminum (Al) indicate alumina-silicate (coarse dirt) ingress. High amount of ingressed dirt has caused abrasive wear to the component. The oil is no longer serviceable as a result of the abnormal and/or severe wear.



WEAR METALS

Iron	ppm	● 487	---	---	---
Copper	ppm	● 194	---	---	---
Lead	ppm	● 5	---	---	---
Tin	ppm	● 18	---	---	---
Aluminum	ppm	● 7	---	---	---
Chromium	ppm	● 3	---	---	---
Molybdenum	ppm	● <1	---	---	---
Nickel	ppm	● <1	---	---	---
Titanium	ppm	<1	---	---	---
Silver	ppm	0	---	---	---
Manganese	ppm	● 5	---	---	---
Vanadium	ppm	0	---	---	---



ADDITIVES

Calcium	ppm	● 14	---	---	---
Magnesium	ppm	● 1	---	---	---
Zinc	ppm	● 56	---	---	---
Phosphorus	ppm	● 2317	---	---	---
Barium	ppm	● 6	---	---	---
Boron	ppm	● 5	---	---	---

Depot: IDESTU
 Unique No: 5645130
 Signed: Bill Quesnel
 Report Date: 21 Sep 2023



GRAPHS

