

LIEBHERR

CONSTRUCTION EQUIPMENT



LIEBHERR R920 051529-1705 - Left Final Drive

Sample No: LH0225025

Oil Type: GEAR OIL SAE 75W90



SHAMROCK EARTHWORKS LTD
 351 EVERSIDE WAY SW
 CALGARY, AB
 CA T2Y 4R2
 Contact: Service Manager



SAMPLE INFORMATION

Sample Number	LH0225025	---	---	---
Sample Date	24 Jan 2024	---	---	---
Machine Hours	3129	---	---	---
Oil Hours	0	---	---	---
Oil Changed	Changed	---	---	---
Sample Status	SEVERE	---	---	---



OIL CONDITION

Visc @ 40°C	cSt	95.0	---	---	---
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T:
F:



CONTAMINATION

Water	%	NEG	---	---	---
Silicon	ppm	273	---	---	---
Sodium	ppm	5	---	---	---
Potassium	ppm	18	---	---	---

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. The fluid was not specified, however, a fluid match indicates that this fluid is (GENERIC) GEAR OIL SAE 75W90. Please confirm. Aluminum ppm levels are noted. All other component wear rates are normal. Elemental levels of silicon (Si) and aluminum (Al) indicate alumina-silicate (coarse dirt) ingress. The oil is no longer serviceable due to the presence of contaminants.



WEAR METALS

Iron	ppm	454	---	---	---
Copper	ppm	<1	---	---	---
Lead	ppm	0	---	---	---
Tin	ppm	0	---	---	---
Aluminum	ppm	65	---	---	---
Chromium	ppm	6	---	---	---
Molybdenum	ppm	0	---	---	---
Nickel	ppm	2	---	---	---
Titanium	ppm	2	---	---	---
Silver	ppm	0	---	---	---
Manganese	ppm	5	---	---	---
Vanadium	ppm	0	---	---	---



ADDITIVES

Calcium	ppm	118	---	---	---
Magnesium	ppm	26	---	---	---
Zinc	ppm	19	---	---	---
Phosphorus	ppm	1286	---	---	---
Barium	ppm	2	---	---	---
Boron	ppm	262	---	---	---

Depot: SHA351CAL
 Unique No: 5722576
 Signed: Bill Quesnel
 Report Date: 05 Feb 2024



GRAPHS

