

LIEBHERR

CONSTRUCTION EQUIPMENT



LIEBHERR R920 051529-1705 - Swing Drive

Sample No: LH0225027

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	LH0225027	---	---	---
Sample Date	24 Jan 2024	---	---	---
Machine Hours	3129	---	---	---
Oil Hours	0	---	---	---
Oil Changed	Changed	---	---	---
Sample Status	ABNORMAL	---	---	---



OIL CONDITION

Visc @ 40°C	cSt	● 105	---	---	---
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CONTAMINATION

Water	%	● 0.251	---	---	---
Silicon	ppm	● 5	---	---	---
Sodium	ppm	● 1	---	---	---
Potassium	ppm	● 1	---	---	---



WEAR METALS

PQ		● 0	---	---	---
Iron	ppm	● 1197	---	---	---
Copper	ppm	● 210	---	---	---
Lead	ppm	● 6	---	---	---
Tin	ppm	● <1	---	---	---
Aluminum	ppm	● <1	---	---	---
Chromium	ppm	● 8	---	---	---
Molybdenum	ppm	● 5	---	---	---
Nickel	ppm	● <1	---	---	---
Titanium	ppm	● 0	---	---	---
Silver	ppm	● <1	---	---	---
Manganese	ppm	● 8	---	---	---
Vanadium	ppm	● 0	---	---	---



ADDITIVES

Calcium	ppm	● 16	---	---	---
Magnesium	ppm	● 2	---	---	---
Zinc	ppm	● 30	---	---	---
Phosphorus	ppm	● 1268	---	---	---
Barium	ppm	● 0	---	---	---
Boron	ppm	● 238	---	---	---

T:
F:

Diagnosis

We advise that you check for the source of water entry. 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. Iron and lead ppm levels are abnormal. Bearing wear is indicated. The low ferrous density (PQ) index indicates the wear metal levels are due to corrosion. There is a moderate concentration of water present in the oil. The oil is no longer serviceable as a result of the abnormal and/or severe wear.

Depot: SHA351CAL
Unique No: 5722574
Signed: Bill Quesnel
Report Date: 06 Feb 2024



GRAPHS

