

LIEBHERR

CONSTRUCTION EQUIPMENT



[(369233)] LIEBHERR R936 050680-1828 - Right Final Drive

Sample No: LH
 Oil Type: {unknown}



Sample Information

Sample Number	LH	---	---	---
Sample Date	29 Mar 2022	---	---	---
Machine Hours	0	---	---	---
Oil Hours	0	---	---	---
Oil Changed	Changed	---	---	---
Sample Status	SEVERE	---	---	---

EN3 INC.
 4420A BOUL. DAGENAIS OUEST
 LAVAL, QC
 CA H7R 1L5
 Contact: Service Manager



Oil Condition

Visc @ 40°C	cSt	217	---	---	---
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T:
 F:



Contamination

Water	%	0.260	---	---	---
Silicon	ppm	1641	---	---	---
Sodium	ppm	69	---	---	---
Potassium	ppm	237	---	---	---

Diagnosis

We advise that you check for the source of water entry. 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. Please specify the brand, type, and viscosity of the oil on your next sample. PQ levels are abnormal. Chromium and iron and titanium ppm levels are abnormal. Aluminum ppm levels are noted. Gear wear is indicated. The high ferrous density (PQ) index indicates that abnormal wear is occurring. There is a moderate concentration of water present in the oil. 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

PQ		859	---	---	---
Iron	ppm	1294	---	---	---
Copper	ppm	1	---	---	---
Lead	ppm	<1	---	---	---
Tin	ppm	0	---	---	---
Aluminum	ppm	521	---	---	---
Chromium	ppm	22	---	---	---
Molybdenum	ppm	1	---	---	---
Nickel	ppm	2	---	---	---
Titanium	ppm	30	---	---	---
Silver	ppm	0	---	---	---
Manganese	ppm	16	---	---	---
Vanadium	ppm	1	---	---	---



Additives

Calcium	ppm	1297	---	---	---
Magnesium	ppm	221	---	---	---
Zinc	ppm	13	---	---	---
Phosphorus	ppm	2340	---	---	---
Barium	ppm	4	---	---	---
Boron	ppm	8	---	---	---

Depot: EN3LAV
 Unique No: 5382145
 Signed: Kevin Marson
 Report Date: 05 Apr 2022



Graphs

