

LIEBHERR

CONSTRUCTION EQUIPMENT



[RAYMOND VP LTD] JOHN DEERE 50GX H13 (S/N 1FF050GXHHH286231) - Right!

Sample No: LH
Oil Type: NOT GIVEN



Raymond Vauclair Projects
16 Symington Lane N.
Springfield, MB
CA R2J 4A8
Contact: Paul .
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T:
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SAMPLE INFORMATION

Sample Number	LH	---	---	---
Sample Date	09 Aug 2023	---	---	---
Machine Hours	1459	---	---	---
Oil Hours	0	---	---	---
Oil Changed	N/A	---	---	---
Sample Status	SEVERE	---	---	---



OIL CONDITION

Visc @ 40°C	cSt	● 117	---	---	---
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CONTAMINATION

Silicon	ppm	● 309	---	---	---
Sodium	ppm	● 12	---	---	---
Potassium	ppm	● 23	---	---	---



WEAR METALS

PQ		● 561	---	---	---
Iron	ppm	● 964	---	---	---
Copper	ppm	● 4	---	---	---
Lead	ppm	● <1	---	---	---
Tin	ppm	● 0	---	---	---
Aluminum	ppm	● 81	---	---	---
Chromium	ppm	● 16	---	---	---
Molybdenum	ppm	● 2	---	---	---
Nickel	ppm	● 6	---	---	---
Titanium	ppm	● 4	---	---	---
Silver	ppm	● <1	---	---	---
Manganese	ppm	● 12	---	---	---
Vanadium	ppm	● <1	---	---	---



ADDITIVES

Calcium	ppm	● 414	---	---	---
Magnesium	ppm	● 175	---	---	---
Zinc	ppm	● 483	---	---	---
Phosphorus	ppm	● 1032	---	---	---
Barium	ppm	● 3	---	---	---
Boron	ppm	● 49	---	---	---

Diagnosis

We advise that you check all areas where dirt can enter the system. We recommend that you drain the oil from the component if this has not already been done. We advise that you flush the component thoroughly before re-filling with oil. 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 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. 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.

Depot: RAY16SPR2
Unique No: 5629280
Signed: Kevin Marson
Report Date: 17 Aug 2023



GRAPHS

