

LIEBHERR

CONSTRUCTION EQUIPMENT



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

Sample No: LH

Oil Type: GEAR OIL SAE 75W90



Raymond Vauclair Projects

16 Symington Lane N.

Springfield, MB

CA R2J 4A8

Contact: Paul .

rvp.shop@rvpltd.ca

T:

F:



SAMPLE INFORMATION

| | | | | |
|---------------|-------------|-----|-----|-----|
| Sample Number | LH | --- | --- | --- |
| Sample Date | 08 Aug 2023 | --- | --- | --- |
| Machine Hours | 1459 | --- | --- | --- |
| Oil Hours | 0 | --- | --- | --- |
| Oil Changed | N/A | --- | --- | --- |
| Sample Status | SEVERE | --- | --- | --- |



OIL CONDITION

| | | | | | |
|-------------|-----|------|-----|-----|-----|
| Visc @ 40°C | cSt | 98.1 | --- | --- | --- |
|-------------|-----|------|-----|-----|-----|



CONTAMINATION

| | | | | | |
|-----------|-----|-----|-----|-----|-----|
| Silicon | ppm | 485 | --- | --- | --- |
| Sodium | ppm | 19 | --- | --- | --- |
| Potassium | ppm | 35 | --- | --- | --- |



WEAR METALS

| | | | | | |
|------------|-----|------|-----|-----|-----|
| PQ | | 390 | --- | --- | --- |
| Iron | ppm | 1608 | --- | --- | --- |
| Copper | ppm | 5 | --- | --- | --- |
| Lead | ppm | <1 | --- | --- | --- |
| Tin | ppm | 0 | --- | --- | --- |
| Aluminum | ppm | 127 | --- | --- | --- |
| Chromium | ppm | 23 | --- | --- | --- |
| Molybdenum | ppm | 3 | --- | --- | --- |
| Nickel | ppm | 12 | --- | --- | --- |
| Titanium | ppm | 6 | --- | --- | --- |
| Silver | ppm | 0 | --- | --- | --- |
| Manganese | ppm | 16 | --- | --- | --- |
| Vanadium | ppm | <1 | --- | --- | --- |



ADDITIVES

| | | | | | |
|------------|-----|-----|-----|-----|-----|
| Calcium | ppm | 268 | --- | --- | --- |
| Magnesium | ppm | 117 | --- | --- | --- |
| Zinc | ppm | 248 | --- | --- | --- |
| Phosphorus | ppm | 799 | --- | --- | --- |
| Barium | ppm | 4 | --- | --- | --- |
| Boron | ppm | 64 | --- | --- | --- |

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. The fluid was not specified, however, a fluid match indicates that this fluid is (GENERIC) GEAR OIL SAE 75W90. Please confirm. Iron ppm levels are severe. PQ levels are abnormal. Nickel and chromium 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: 5629279

Signed: Kevin Marson

Report Date: 17 Aug 2023



GRAPHS

