

WEAR **SEVERE** CONTAMINATION NORMAL FLUID CONDITION NORMAL

Machine Id

LIEBHERR A934C 065595-1007

Front Left Wheel Hub

GEAR OIL SAE 80W90 (--- GAL)

RECOMMENDATION

We recommend that you drain the oil from the component if this has not already been done. We advise that you inspect for the source(s) of wear. We recommend an early resample to monitor this condition.

WEAR

Gear wear is indicated.

CONTAMINATION

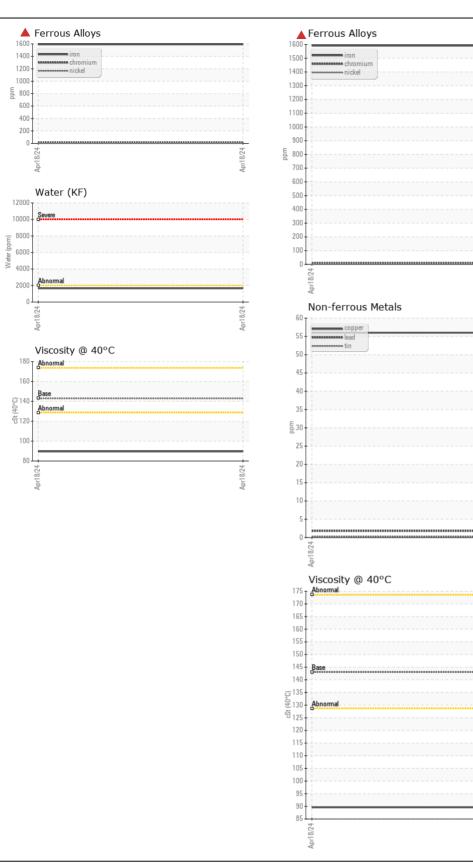
The water content is negligible. There is no indication of any contamination in the oil.

FLUID CONDITION

The oil is no longer serviceable as a result of the abnormal and/or severe wear.

| / | | | | | | |
|------------------|--------|-------------|-----------|--------------|----------|----------|
| Test | UOM | Method | Limit/Abn | Current | History1 | History2 |
| Sample Number | | Client Info | | LH0267141 | | |
| Sample Date | | Client Info | | 18 Apr 2024 | | |
| Machine Age | hrs | Client Info | | 55376 | | |
| Oil Age | hrs | Client Info | | 0 | | |
| Filter Age | hrs | Client Info | | 0 | | |
| Oil Changed | | Client Info | | Not Changd | | |
| Filter Changed | | Client Info | | Not Changd | | |
| Sample Status | | | | SEVERE | | |
| | | | | | | |
| Iron | ppm | ASTM D5185m | >500 | 1 592 | | |
| Chromium | ppm | ASTM D5185m | >4 | 1 0 | | |
| Nickel | ppm | ASTM D5185m | >3 | 3 | | |
| Titanium | ppm | ASTM D5185m | | 1 | | |
| Silver | ppm | ASTM D5185m | | <1 | | |
| Aluminum | ppm | ASTM D5185m | >15 | 5 | | |
| Lead | ppm | ASTM D5185m | >4 | 2 | | |
| Copper | ppm | ASTM D5185m | >100 | 56 | | |
| Tin | ppm | ASTM D5185m | >3 | <1 | | |
| Vanadium | ppm | ASTM D5185m | | <1 | | |
| White Metal | scalar | *Visual | NONE | NONE | | |
| Yellow Metal | scalar | *Visual | NONE | NONE | | |
| Silicon | ppm | ASTM D5185m | >65 | 31 | | |
| Potassium | ppm | ASTM D5185m | >20 | 10 | | |
| Water | % | ASTM D6304 | >0.2 | 0.166 | | |
| ppm Water | ppm | ASTM D6304 | >2000 | 1660 | | |
| Silt | scalar | *Visual | NONE | NONE | | |
| Debris | scalar | *Visual | NONE | NONE | | |
| Sand/Dirt | scalar | *Visual | NONE | NONE | | |
| Appearance | scalar | *Visual | NORML | NORML | | |
| Odor | scalar | *Visual | NORML | NORML | | |
| Emulsified Water | scalar | *Visual | >0.2 | 0.2% | | |
| | | | | | | |
| Sodium | ppm | ASTM D5185m | >170 | 8 | | |
| Boron | ppm | ASTM D5185m | 400 | 15 | | |
| Barium | ppm | ASTM D5185m | 200 | 2 | | |
| Molybdenum | ppm | ASTM D5185m | 12 | 3 | | |
| Manganese | ppm | ASTM D5185m | | 17 | | |
| Magnesium | ppm | ASTM D5185m | 12 | 8 | | |
| Calcium | ppm | ASTM D5185m | 150 | 696 | | |
| Phosphorus | ppm | ASTM D5185m | 1650 | 1311 | | |
| Zinc | ppm | ASTM D5185m | 125 | 321 | | |
| Sulfur | ppm | ASTM D5185m | 22500 | 20514 | | |
| Visc @ 40°C | cSt | ASTM D445 | 143 | 89.6 | | |

Contact/Location: MARK SNYDER - DOMWAU



DOMTAR PULP AND PAPER Laboratory : WearCheck USA - 501 Madison Ave., Cary, NC 27513 Sample No. Received 301 POINT BASSE AVE : LH0267141 : 24 Apr 2024 Lab Number : 06159920 Tested NEKOOSA, WI : 25 Apr 2024 Unique Number : 10995343 : 26 Apr 2024 - Sean Felton US 54457 Diagnosed Test Package : CONST (Additional Tests: KF) Contact: MARK SNYDER Certificate L2367 To discuss this sample report, contact Customer Service at 1-800-237-1369. mark.snyder@domtar.com * - Denotes test methods that are outside of the ISO 17025 scope of accreditation. T: (715)675-6900 Statements of conformity to specifications are based on the simple acceptance decision rule (JCGM 106:2012) F: (715)675-9748

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