



OIL ANALYSIS REPORT

| | |
|-----------------|---------------|
| WEAR | NORMAL |
| CONTAMINATION | NORMAL |
| FLUID CONDITION | NORMAL |



Machine Id
LIEBHERR A934C-HD-ERC-LI C-50 (S/N 060798-1419)
Component
Rear Left Planetary
Fluid
CHEVRON MULTIGEAR EP5 80W90 (1 GAL)

RECOMMENDATION

Resample at the next service interval to monitor.

| Test | UOM | Method | Limit/Abn | Current | History1 | History2 |
|----------------|-----|-------------|-----------|--------------------|-------------|-------------|
| Sample Number | | Client Info | | WC0920317 | WC0869317 | WC0849490 |
| Sample Date | | Client Info | | 16 Apr 2024 | 02 Nov 2023 | 30 Aug 2023 |
| Machine Age | hrs | Client Info | | 23905 | 22950 | 22605 |
| Oil Age | hrs | Client Info | | 2538 | 345 | 296 |
| Filter Age | hrs | Client Info | | 0 | 345 | 0 |
| Oil Changed | | Client Info | | Changed | Changed | N/A |
| Filter Changed | | Client Info | | Not Changed | Changed | N/A |
| Sample Status | | | | NORMAL | NORMAL | NORMAL |

WEAR

All component wear rates are normal.

| | | | | | | |
|--------------|--------|-------------|------|-------------|------|------|
| Iron | ppm | ASTM D5185m | >500 | 10 | 12 | 7 |
| Chromium | ppm | ASTM D5185m | >10 | 0 | 0 | 0 |
| Nickel | ppm | ASTM D5185m | >10 | 0 | 0 | 0 |
| Titanium | ppm | ASTM D5185m | | 0 | 0 | 0 |
| Silver | ppm | ASTM D5185m | | 0 | 0 | 0 |
| Aluminum | ppm | ASTM D5185m | >25 | 0 | <1 | <1 |
| Lead | ppm | ASTM D5185m | >25 | 0 | 0 | 0 |
| Copper | ppm | ASTM D5185m | >75 | 0 | 1 | <1 |
| Tin | ppm | ASTM D5185m | >10 | 0 | 0 | 0 |
| Vanadium | ppm | ASTM D5185m | | 0 | <1 | 0 |
| White Metal | scalar | *Visual | NONE | NONE | NONE | NONE |
| Yellow Metal | scalar | *Visual | NONE | NONE | NONE | NONE |

CONTAMINATION

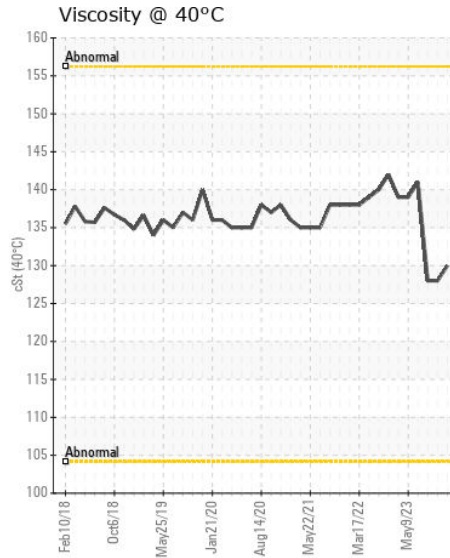
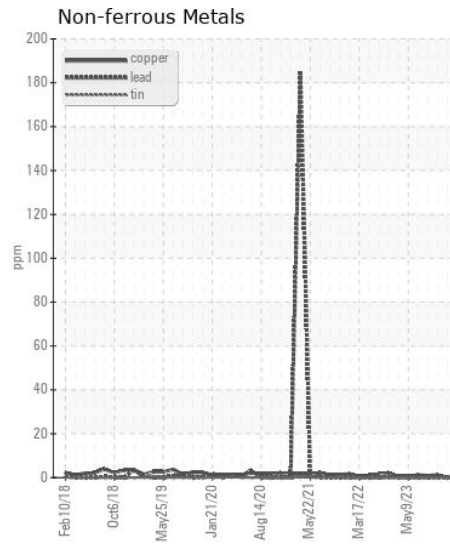
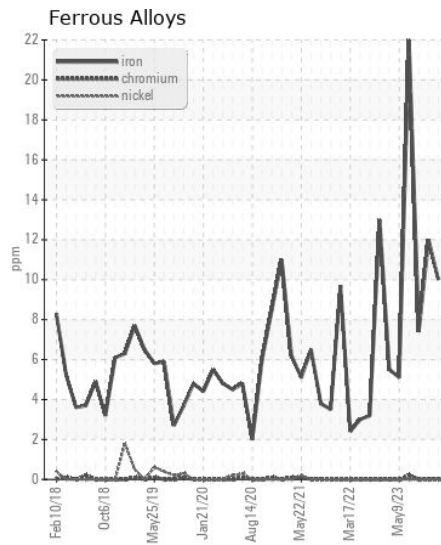
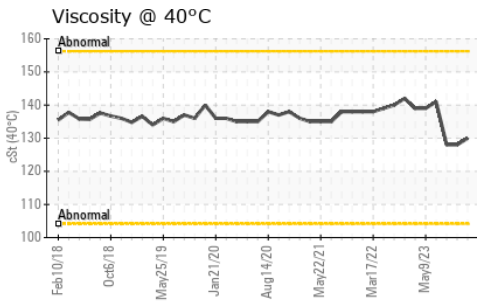
There is no indication of any contamination in the oil.

| | | | | | | |
|------------------|--------|-------------|-------|--------------|-------|-------|
| Silicon | ppm | ASTM D5185m | >75 | 3 | 3 | 4 |
| Potassium | ppm | ASTM D5185m | >20 | 0 | 2 | 1 |
| Water | | WC Method | >0.2 | NEG | NEG | NEG |
| Silt | scalar | *Visual | NONE | NONE | NONE | NONE |
| Debris | scalar | *Visual | NONE | NONE | LIGHT | NONE |
| Sand/Dirt | scalar | *Visual | NONE | NONE | NONE | NONE |
| Appearance | scalar | *Visual | NORML | NORML | NORML | NORML |
| Odor | scalar | *Visual | NORML | NORML | NORML | NORML |
| Emulsified Water | scalar | *Visual | >0.2 | NEG | NEG | NEG |

FLUID CONDITION

The condition of the oil is acceptable for the time in service.

| | | | | | | |
|-------------|-----|-------------|--|--------------|-------|-------|
| Sodium | ppm | ASTM D5185m | | 0 | <1 | <1 |
| Boron | ppm | ASTM D5185m | | 8 | 10 | 11 |
| Barium | ppm | ASTM D5185m | | 0 | 0 | 2 |
| Molybdenum | ppm | ASTM D5185m | | 0 | <1 | 0 |
| Manganese | ppm | ASTM D5185m | | 0 | <1 | <1 |
| Magnesium | ppm | ASTM D5185m | | <1 | 1 | 0 |
| Calcium | ppm | ASTM D5185m | | 11 | 65 | 6 |
| Phosphorus | ppm | ASTM D5185m | | 490 | 486 | 444 |
| Zinc | ppm | ASTM D5185m | | 11 | 41 | 16 |
| Sulfur | ppm | ASTM D5185m | | 21220 | 20045 | 18599 |
| Visc @ 40°C | cSt | ASTM D445 | | 130 | 128 | 128 |



Certificate L2367

Laboratory : WearCheck USA - 501 Madison Ave., Cary, NC 27513
Sample No. : WC0920317
Lab Number : 06160764
Unique Number : 10996187
Test Package : CONST
Received : 25 Apr 2024
Tested : 26 Apr 2024
Diagnosed : 26 Apr 2024 - Wes Davis

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To discuss this sample report, contact Customer Service at 1-800-237-1369.

* - Denotes test methods that are outside of the ISO 17025 scope of accreditation.

Statements of conformity to specifications are based on the simple acceptance decision rule (JCGM 106:2012)