

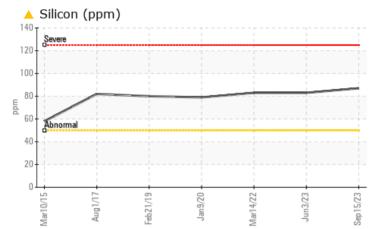
PROBLEM SUMMARY

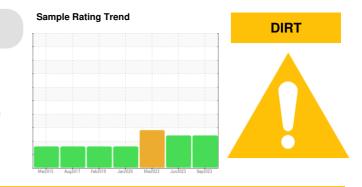
Area LINE 8 [907958883] Machine Id [LINE 8] LINE 8 WRAPPER 15 LINE 8 WRAPPER 15 Component

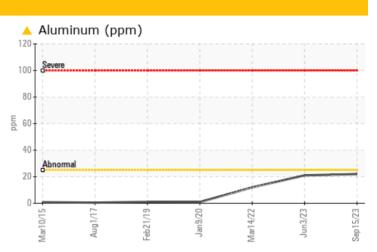
Gearbox

GEAR OIL LS 80W90 (--- QTS)

COMPONENT CONDITION SUMMARY







RECOMMENDATION

We advise that you check all areas where dirt can enter the system. Resample at the next service interval to monitor.

| PROBLEMATIC TEST RESULTS | | | | | | | | |
|--------------------------|-----|-------------|-----|----------|-------------|-------------|--|--|
| Sample Status | | | | ABNORMAL | ABNORMAL | ABNORMAL | | |
| Aluminum | ppm | ASTM D5185m | >25 | <u> </u> | 1 21 | 1 2 | | |
| Silicon | ppm | ASTM D5185m | >50 | <u> </u> | A 83 | A 83 | | |

Customer Id: HERHER Sample No.: PCA0103719 Lab Number: 05966472 Test Package: IND 2



To manage this report scan the QR code

To discuss the diagnosis or test data: Don Baldridge +1 <u>don.b505@comcast.net</u>

To change component or sample information: Customer Service +1 1-800-237-1369 <u>customerservice@wearcheck.com</u>

| RECOMMENDED ACTIONS | | | | | | |
|---------------------|--------|------|---------|---|--|--|
| Action | Status | Date | Done By | Description | | |
| Check Dirt Access | | | ? | We advise that you check all areas where dirt can enter the system. | | |

HISTORICAL DIAGNOSIS

We advise that you check all areas where dirt can enter the system. Resample at the next service interval to monitor.All component wear rates are normal. Elemental levels of silicon (Si) and aluminum (Al) indicate aluminasilicate (coarse dirt) ingress. The AN level is acceptable for this fluid. The condition of the oil is suitable for further service.

We advise that you check all areas where dirt can enter the system. Resample at the next service interval to monitor.All component wear rates are normal. Moderate concentration of visible dirt/debris present in the oil. Elemental levels of silicon (Si) and aluminum (Al) indicate alumina-silicate (coarse dirt) ingress. The AN level is

acceptable for this fluid. The condition of the oil is suitable for further service.

view report

14 Mar 2022 Diag: Don Baldridge

03 Jun 2023 Diag: Don Baldridge



09 Jan 2020 Diag: Don Baldridge

No corrective action is recommended at this time. Resample at the next service interval to monitor.All component wear rates are normal. Elemental level of silicon (Si) above normal. The AN level is acceptable for this fluid. The condition of the oil is suitable for further service.







OIL ANALYSIS REPORT

Area LINE 8 [907958883] Machine Id [LINE 8] LINE 8 WRAPPER 15 LINE 8 WRAPPER 15 Component

Gearbox

GEAR OIL LS 80W90 (--- QTS)

DIAGNOSIS

Recommendation

We advise that you check all areas where dirt can enter the system. Resample at the next service interval to monitor.

📥 Wear

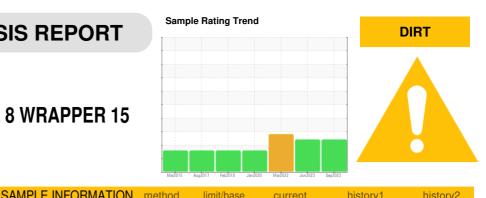
All component wear rates are normal.

Contamination

Elemental levels of silicon (Si) and aluminum (Al) indicate alumina-silicate (coarse dirt) ingress.

Fluid Condition

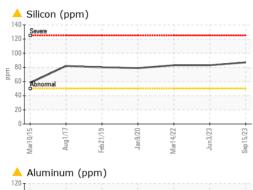
The AN level is acceptable for this fluid. The condition of the oil is suitable for further service.

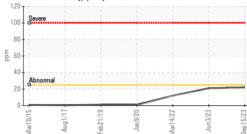


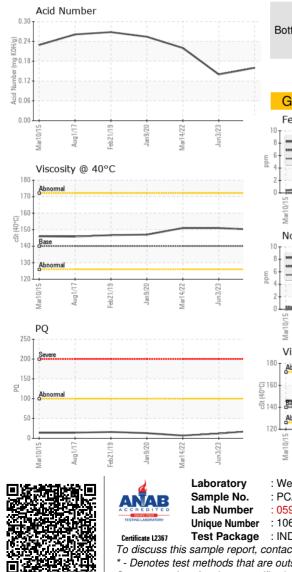
| SAMPLE INFOR | MATION | method | limit/base | current | history1 | history2 |
|------------------|----------|-------------|------------|-------------|-------------|-------------|
| Sample Number | | Client Info | | PCA0103719 | PCA0078608 | PCA0037042 |
| Sample Date | | Client Info | | 15 Sep 2023 | 03 Jun 2023 | 14 Mar 2022 |
| Machine Age | hrs | Client Info | | 0 | 0 | 0 |
| Oil Age | hrs | Client Info | | 0 | 0 | 0 |
| Oil Changed | | Client Info | | N/A | N/A | N/A |
| Sample Status | | | | ABNORMAL | ABNORMAL | ABNORMAL |
| WEAR METAL | .S | method | limit/base | current | history1 | history2 |
| PQ | | ASTM D8184 | | 19 | 12 | 7 |
| Iron | ppm | ASTM D5185m | >200 | 4 | 3 | 3 |
| Chromium | ppm | ASTM D5185m | >15 | 0 | 0 | 0 |
| Nickel | ppm | ASTM D5185m | >15 | 0 | <1 | 0 |
| Titanium | ppm | ASTM D5185m | | 0 | 0 | 0 |
| Silver | ppm | ASTM D5185m | | 0 | <1 | 0 |
| Aluminum | ppm | ASTM D5185m | >25 | <u> </u> | 1 21 | 1 2 |
| Lead | ppm | ASTM D5185m | >100 | 0 | 0 | 0 |
| Copper | ppm | ASTM D5185m | >200 | 0 | <1 | 0 |
| Tin | ppm | ASTM D5185m | >25 | 0 | <1 | <1 |
| Antimony | ppm | ASTM D5185m | >5 | | | |
| Vanadium | ppm | ASTM D5185m | | 0 | 0 | 0 |
| Cadmium | ppm | ASTM D5185m | | 0 | 0 | 0 |
| ADDITIVES | | method | limit/base | current | history1 | history2 |
| Boron | ppm | ASTM D5185m | 150 | 0 | 0 | 0 |
| Barium | ppm | ASTM D5185m | | 0 | 0 | 0 |
| Molybdenum | ppm | ASTM D5185m | | 0 | 0 | 0 |
| Manganese | ppm | ASTM D5185m | | <1 | 0 | <1 |
| Magnesium | ppm | ASTM D5185m | 10 | 0 | <1 | 0 |
| Calcium | ppm | ASTM D5185m | 70 | 172 | 131 | 143 |
| Phosphorus | ppm | ASTM D5185m | 2000 | 455 | 408 | 426 |
| Zinc | ppm | ASTM D5185m | 50 | 31 | 26 | 26 |
| Sulfur | ppm | ASTM D5185m | 20000 | 547 | 503 | 650 |
| CONTAMINAN | ITS | method | limit/base | current | history1 | history2 |
| Silicon | ppm | ASTM D5185m | >50 | <u> </u> | <u> </u> | 8 3 |
| Sodium | ppm | ASTM D5185m | | <1 | 0 | 0 |
| Potassium | ppm | ASTM D5185m | >20 | <1 | 2 | 0 |
| FLUID DEGRA | | method | limit/base | current | history1 | history2 |
| Acid Number (AN) | mg KOH/g | ASTM D8045 | | 0.16 | 0.14 | 0.22 |
| | | | | | | |



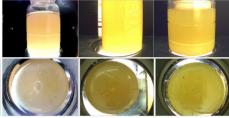
OIL ANALYSIS REPORT



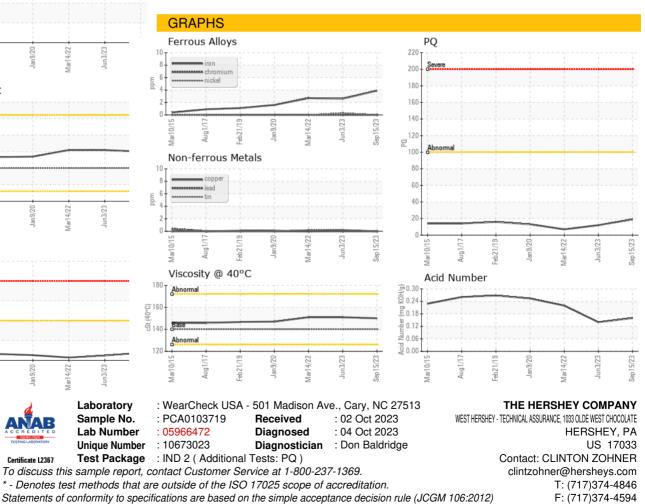




| VISUAL | | method | limit/base | current | history1 | history2 |
|------------------|--------|-----------|------------|---------|----------|----------|
| White Metal | scalar | *Visual | NONE | NONE | NONE | NONE |
| Yellow Metal | scalar | *Visual | NONE | NONE | NONE | NONE |
| Precipitate | scalar | *Visual | NONE | NONE | NONE | NONE |
| Silt | scalar | *Visual | NONE | NONE | NONE | NONE |
| Debris | scalar | *Visual | NONE | NONE | NONE | 🔺 MODER |
| 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 |
| Free Water | scalar | *Visual | | NEG | NEG | NEG |
| FLUID PROPE | RTIES | method | limit/base | current | history1 | history2 |
| Visc @ 40°C | cSt | ASTM D445 | 140 | 150 | 151 | 151 |
| SAMPLE IMAG | ES | method | limit/base | current | history1 | history2 |
| Color | | | | n | | |



Bottom



Contact/Location: CLINTON ZOHNER - HERHER