



OIL ANALYSIS REPORT

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

Machine Id
12988
 Component
Rear Differential
 Fluid
CASTROL SYNTEC FULL SYNTHETIC 75W90 (--- LTR)

RECOMMENDATION

Resample at the next service interval to monitor.

| Test | UOM | Method | Limit/Abn | Current | History1 | History2 |
|----------------|-----|-------------|-----------|--------------------|-------------|----------|
| Sample Number | | Client Info | | WC0888382 | WC0836926 | --- |
| Sample Date | | Client Info | | 04 Apr 2024 | 04 Dec 2023 | --- |
| Machine Age | mls | Client Info | | 75310 | 60230 | --- |
| Oil Age | mls | Client Info | | 0 | 60230 | --- |
| Filter Age | mls | Client Info | | 0 | 0 | --- |
| Oil Changed | | Client Info | | Not Changd | Not Changd | --- |
| Filter Changed | | Client Info | | N/A | N/A | --- |
| Sample Status | | | | NORMAL | NORMAL | --- |

WEAR

All component wear rates are normal.

| | | | | | | |
|--------------|--------|-------------|------|--------------|------|-----|
| Iron | ppm | ASTM D5185m | >500 | 190 | 138 | --- |
| Chromium | ppm | ASTM D5185m | >10 | 2 | <1 | --- |
| Nickel | ppm | ASTM D5185m | >10 | <1 | 0 | --- |
| Titanium | ppm | ASTM D5185m | | <1 | 0 | --- |
| Silver | ppm | ASTM D5185m | | 2 | 0 | --- |
| Aluminum | ppm | ASTM D5185m | >25 | 2 | <1 | --- |
| Lead | ppm | ASTM D5185m | >25 | <1 | 0 | --- |
| Copper | ppm | ASTM D5185m | >100 | 2 | 1 | --- |
| Tin | ppm | ASTM D5185m | >10 | <1 | 0 | --- |
| Vanadium | ppm | ASTM D5185m | | <1 | 0 | --- |
| White Metal | scalar | *Visual | NONE | NONE | NONE | --- |
| Yellow Metal | scalar | *Visual | NONE | NONE | NONE | --- |

CONTAMINATION

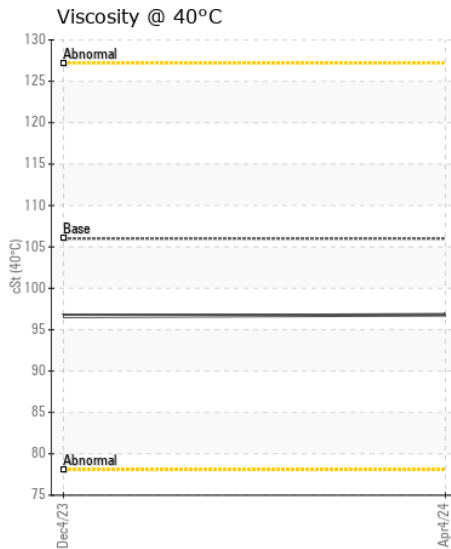
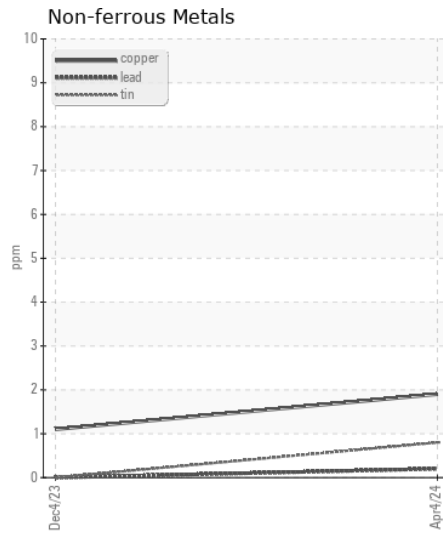
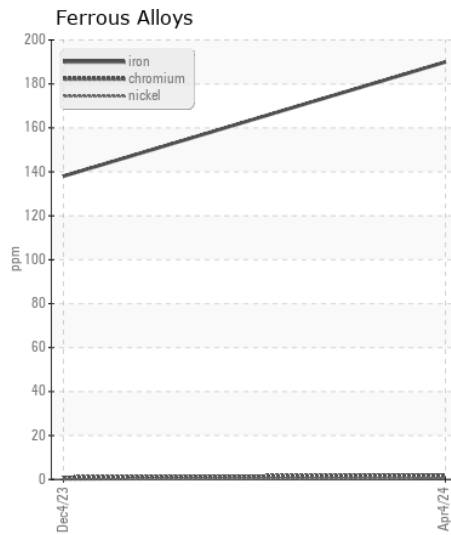
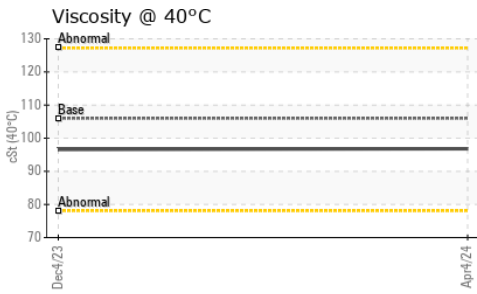
There is no indication of any contamination in the oil.

| | | | | | | |
|------------------|--------|-------------|-------|--------------|-------|-----|
| Silicon | ppm | ASTM D5185m | >75 | 25 | 18 | --- |
| Potassium | ppm | ASTM D5185m | >20 | 5 | 3 | --- |
| Water | | WC Method | >.2 | NEG | NEG | --- |
| Silt | scalar | *Visual | NONE | NONE | NONE | --- |
| Debris | scalar | *Visual | NONE | NONE | NONE | --- |
| Sand/Dirt | scalar | *Visual | NONE | NONE | NONE | --- |
| Appearance | scalar | *Visual | NORML | NORML | NORML | --- |
| Odor | scalar | *Visual | NORML | NORML | NORML | --- |
| Emulsified Water | scalar | *Visual | >.2 | NEG | NEG | --- |

FLUID CONDITION

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

| | | | | | | |
|-------------|-----|-------------|-----|--------------|-------|-----|
| Sodium | ppm | ASTM D5185m | | 6 | 3 | --- |
| Boron | ppm | ASTM D5185m | | 235 | 151 | --- |
| Barium | ppm | ASTM D5185m | | 3 | 1 | --- |
| Molybdenum | ppm | ASTM D5185m | | <1 | 0 | --- |
| Manganese | ppm | ASTM D5185m | | 11 | 5 | --- |
| Magnesium | ppm | ASTM D5185m | | 7 | 3 | --- |
| Calcium | ppm | ASTM D5185m | | 251 | 169 | --- |
| Phosphorus | ppm | ASTM D5185m | | 1549 | 1126 | --- |
| Zinc | ppm | ASTM D5185m | | 41 | 14 | --- |
| Sulfur | ppm | ASTM D5185m | | 34983 | 24473 | --- |
| Visc @ 40°C | cSt | ASTM D445 | 106 | 96.8 | 96.6 | --- |



Certificate L2367

Laboratory : WearCheck USA - 501 Madison Ave., Cary, NC 27513

Sample No. : WC0888382

Lab Number : 06145442

Unique Number : 10970250

Test Package : FLEET

Received : 10 Apr 2024

Tested : 11 Apr 2024

Diagnosed : 14 Apr 2024 - Don Baldrige

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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)