



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



Machine Id
DT33
Component
Rear Differential
Fluid
CHEVRON RPM SYNTHETIC GEAR 75W90 (3 mls)

RECOMMENDATION

Resample at the next service interval to monitor.

| Test | UOM | Method | Limit/Abn | Current | History1 | History2 |
|----------------|-----|-------------|-----------|--------------------|-------------|-------------|
| Sample Number | | Client Info | | PCA0110899 | PCA0104207 | PCA0104127 |
| Sample Date | | Client Info | | 22 Feb 2024 | 05 Feb 2024 | 31 Aug 2023 |
| Machine Age | mls | Client Info | | 304214 | 302303 | 287410 |
| Oil Age | mls | Client Info | | 75000 | 75000 | 75000 |
| Filter Age | mls | Client Info | | 75000 | 75000 | 75000 |
| Oil Changed | | Client Info | | Not Chngd | N/A | Not Chngd |
| Filter Changed | | Client Info | | Not Chngd | N/A | Not Chngd |
| Sample Status | | | | NORMAL | ABNORMAL | NORMAL |

WEAR

All component wear rates are normal.

| | | | | | | |
|--------------|--------|-------------|-------|--------------|------|------|
| Iron | ppm | ASTM D5185m | >1200 | 112 | 312 | 180 |
| Chromium | ppm | ASTM D5185m | >8 | <1 | 2 | <1 |
| Nickel | ppm | ASTM D5185m | >20 | 3 | 10 | 5 |
| Titanium | ppm | ASTM D5185m | >4 | 0 | <1 | 0 |
| Silver | ppm | ASTM D5185m | | 0 | 0 | 0 |
| Aluminum | ppm | ASTM D5185m | >30 | 10 | ▲ 32 | 18 |
| Lead | ppm | ASTM D5185m | >25 | 1 | <1 | 0 |
| Copper | ppm | ASTM D5185m | >50 | <1 | 1 | <1 |
| Tin | ppm | ASTM D5185m | >5 | <1 | <1 | 0 |
| Vanadium | ppm | ASTM D5185m | | 0 | 0 | 0 |
| White Metal | scalar | *Visual | NONE | NONE | NONE | NONE |
| Yellow Metal | scalar | *Visual | NONE | NONE | NONE | NONE |

CONTAMINATION

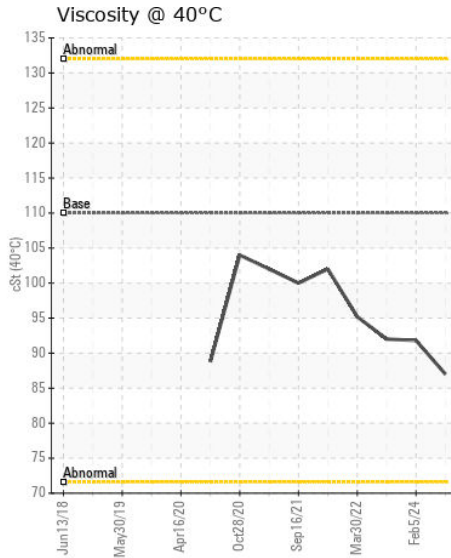
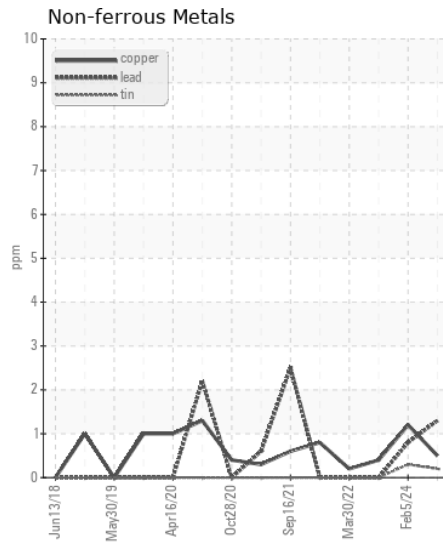
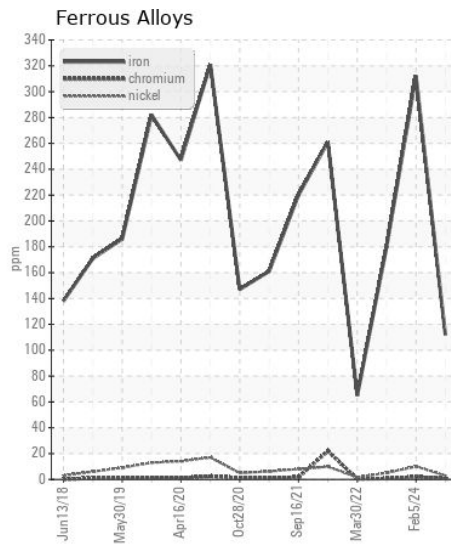
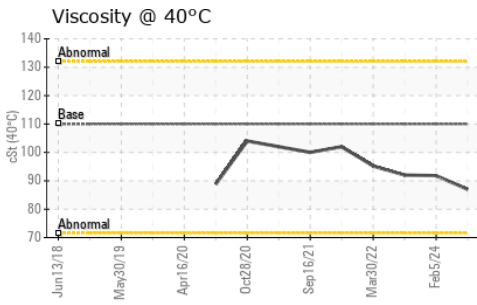
There is no indication of any contamination in the oil.

| | | | | | | |
|------------------|--------|-------------|-------|--------------|-------|-------|
| Silicon | ppm | ASTM D5185m | >230 | 22 | 48 | 41 |
| Potassium | ppm | ASTM D5185m | >20 | <1 | 4 | <1 |
| Water | | WC Method | >.2 | NEG | NEG | NEG |
| Silt | scalar | *Visual | NONE | NONE | NONE | NONE |
| Debris | scalar | *Visual | NONE | LIGHT | NONE | 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 | >.2 | NEG | NEG | NEG |

FLUID CONDITION

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

| | | | | | | |
|-------------|-----|-------------|-----|--------------|-------|-------|
| Sodium | ppm | ASTM D5185m | | 2 | 2 | <1 |
| Boron | ppm | ASTM D5185m | | 230 | 221 | 260 |
| Barium | ppm | ASTM D5185m | | 0 | 0 | 7 |
| Molybdenum | ppm | ASTM D5185m | | 14 | 5 | 5 |
| Manganese | ppm | ASTM D5185m | | 1 | 3 | 2 |
| Magnesium | ppm | ASTM D5185m | | 68 | 70 | 71 |
| Calcium | ppm | ASTM D5185m | | 175 | 81 | 113 |
| Phosphorus | ppm | ASTM D5185m | | 1239 | 1362 | 1293 |
| Zinc | ppm | ASTM D5185m | | 118 | 100 | 108 |
| Sulfur | ppm | ASTM D5185m | | 19352 | 22727 | 25056 |
| Visc @ 40°C | cSt | ASTM D445 | 110 | 87.0 | 91.8 | 92.0 |



Certificate L2367

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

Sample No. : PCA0110899

Lab Number : 06100478

Unique Number : 10898708

Test Package : FLEET

Received : 26 Feb 2024

Tested : 27 Feb 2024

Diagnosed : 27 Feb 2024 - Wes Davis

HK STEEL INC

400 N PARSON ST

WEST COLUMBIA, SC

US 29169

Contact: GEORGE EDWARDS

gedwards@nwwhite.com

T:

F:

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)