



OIL ANALYSIS REPORT

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

Machine Id

23

Component

Rear Differential

Fluid

GEAR OIL SAE 75W90 (--- QTS)

RECOMMENDATION

The oil change at the time of sampling has been noted. No corrective action is recommended at this time. Resample at the next service interval to monitor.

| Test | UOM | Method | Limit/Abn | Current | History1 | History2 |
|----------------|-----|-------------|-----------|--------------------|----------|----------|
| Sample Number | | Client Info | | WC0857065 | --- | --- |
| Sample Date | | Client Info | | 30 Jan 2024 | --- | --- |
| Machine Age | mls | Client Info | | 74238 | --- | --- |
| Oil Age | mls | Client Info | | 0 | --- | --- |
| Filter Age | mls | Client Info | | 0 | --- | --- |
| Oil Changed | | Client Info | | Changed | --- | --- |
| Filter Changed | | Client Info | | Changed | --- | --- |
| Sample Status | | | | ABNORMAL | --- | --- |

WEAR

Gear wear is indicated.

| | | | | | | |
|--------------|--------|-------------|------|--------------|-----|-----|
| Iron | ppm | ASTM D5185m | >500 | ▲ 512 | --- | --- |
| Chromium | ppm | ASTM D5185m | >10 | 3 | --- | --- |
| Nickel | ppm | ASTM D5185m | >10 | ▲ 14 | --- | --- |
| Titanium | ppm | ASTM D5185m | | <1 | --- | --- |
| Silver | ppm | ASTM D5185m | | 2 | --- | --- |
| Aluminum | ppm | ASTM D5185m | >25 | <1 | --- | --- |
| Lead | ppm | ASTM D5185m | >25 | <1 | --- | --- |
| Copper | ppm | ASTM D5185m | >100 | 34 | --- | --- |
| Tin | ppm | ASTM D5185m | >10 | <1 | --- | --- |
| Vanadium | ppm | ASTM D5185m | | 0 | --- | --- |
| White Metal | scalar | *Visual | NONE | NONE | --- | --- |
| Yellow Metal | scalar | *Visual | NONE | NONE | --- | --- |

CONTAMINATION

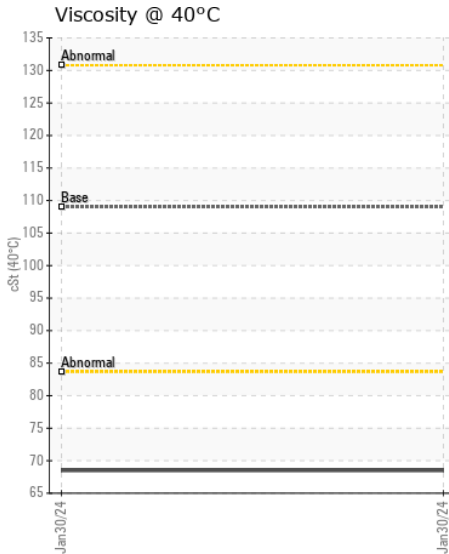
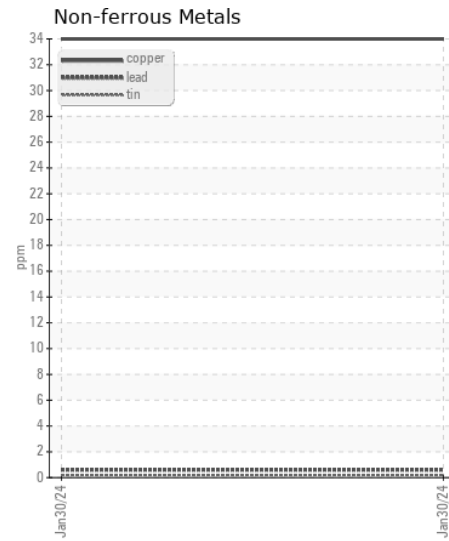
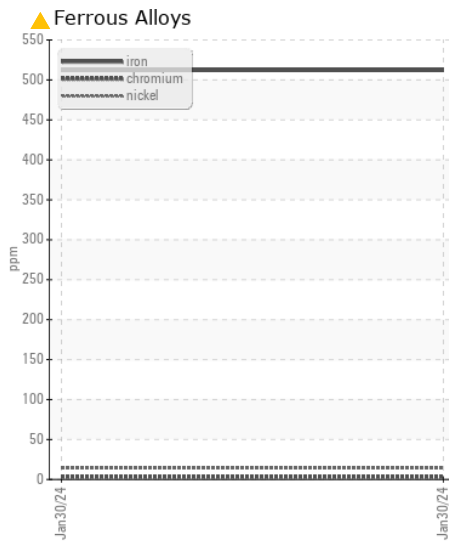
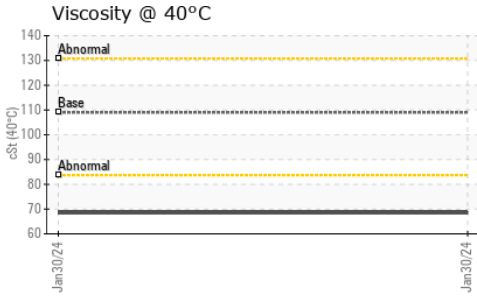
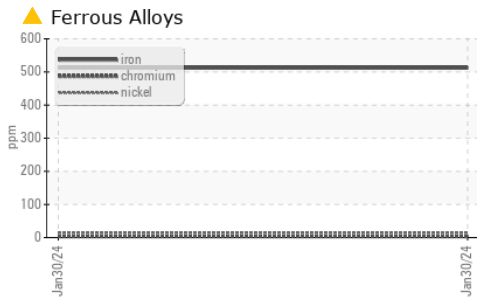
There is no indication of any contamination in the oil.

| | | | | | | |
|------------------|--------|-------------|-------|--------------|-----|-----|
| Silicon | ppm | ASTM D5185m | >75 | 33 | --- | --- |
| Potassium | ppm | ASTM D5185m | >20 | 5 | --- | --- |
| Water | | WC Method | >.2 | NEG | --- | --- |
| 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 | >.2 | NEG | --- | --- |

FLUID CONDITION

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

| | | | | | | |
|-------------|-----|-------------|-------|--------------|-----|-----|
| Sodium | ppm | ASTM D5185m | | 54 | --- | --- |
| Boron | ppm | ASTM D5185m | 400 | 74 | --- | --- |
| Barium | ppm | ASTM D5185m | 200 | 5 | --- | --- |
| Molybdenum | ppm | ASTM D5185m | 12 | 1 | --- | --- |
| Manganese | ppm | ASTM D5185m | | 103 | --- | --- |
| Magnesium | ppm | ASTM D5185m | 12 | 7 | --- | --- |
| Calcium | ppm | ASTM D5185m | 150 | 10 | --- | --- |
| Phosphorus | ppm | ASTM D5185m | 1650 | 1229 | --- | --- |
| Zinc | ppm | ASTM D5185m | 125 | 133 | --- | --- |
| Sulfur | ppm | ASTM D5185m | 22500 | 20293 | --- | --- |
| Visc @ 40°C | cSt | ASTM D445 | 109 | 68.5 | --- | --- |



Certificate L2367

Laboratory : WearCheck USA - 501 Madison Ave., Cary, NC 27513
Sample No. : WC0857065 **Received** : 01 Feb 2024
Lab Number : 06077877 **Tested** : 02 Feb 2024
Unique Number : 10859968 **Diagnosed** : 04 Feb 2024 - Don Baldrige
Test Package : CONST

SULLIVAN EASTERN INC
 2860 C SLATER RD
 MORRISVILLE, NC
 US 27560

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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)