



Machine Id
VOLVO 26653
 Component
Front Differential
 Fluid
GEAR OIL SAE 80W90 (--- GAL)

RECOMMENDATION

Resample at the next service interval to monitor.

| Test | UOM | Method | Limit/Abn | Current | History1 | History2 |
|----------------|-----|-------------|-----------|-------------|----------|----------|
| Sample Number | | Client Info | | PCA0118951 | --- | --- |
| Sample Date | | Client Info | | 28 Feb 2024 | --- | --- |
| Machine Age | mls | Client Info | | 30000 | --- | --- |
| Oil Age | mls | Client Info | | 30000 | --- | --- |
| Filter Age | mls | Client Info | | 30000 | --- | --- |
| Oil Changed | | Client Info | | N/A | --- | --- |
| Filter Changed | | Client Info | | N/A | --- | --- |
| Sample Status | | | | ATTENTION | --- | --- |

WEAR

Metal levels are typical for a new component breaking in.

| | | | | | | |
|--------------|--------|-------------|------|------|-----|-----|
| Iron | ppm | ASTM D5185m | >500 | 536 | --- | --- |
| Chromium | ppm | ASTM D5185m | >10 | 3 | --- | --- |
| Nickel | ppm | ASTM D5185m | >10 | 6 | --- | --- |
| Titanium | ppm | ASTM D5185m | | <1 | --- | --- |
| Silver | ppm | ASTM D5185m | | 0 | --- | --- |
| Aluminum | ppm | ASTM D5185m | >25 | 5 | --- | --- |
| Lead | ppm | ASTM D5185m | >25 | 28 | --- | --- |
| Copper | ppm | ASTM D5185m | >100 | 41 | --- | --- |
| Tin | ppm | ASTM D5185m | >10 | 3 | --- | --- |
| Vanadium | ppm | ASTM D5185m | | 0 | --- | --- |
| White Metal | scalar | *Visual | NONE | NONE | --- | --- |
| Yellow Metal | scalar | *Visual | NONE | NONE | --- | --- |

CONTAMINATION

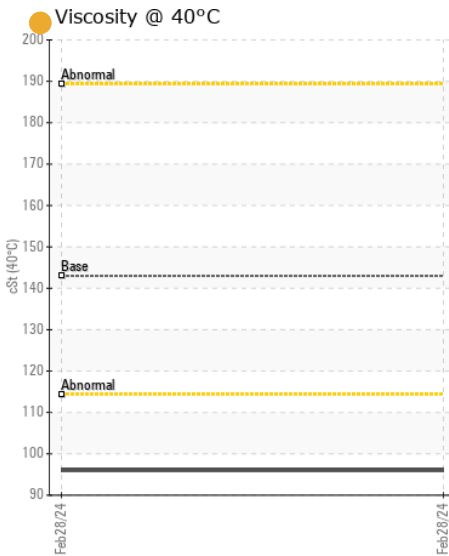
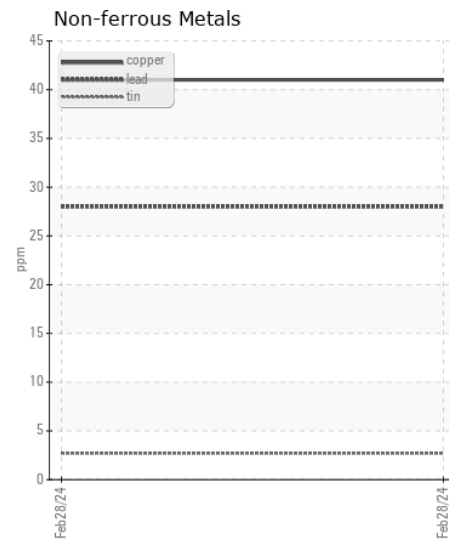
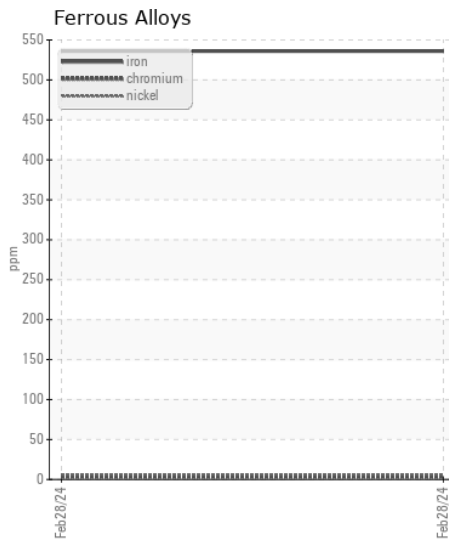
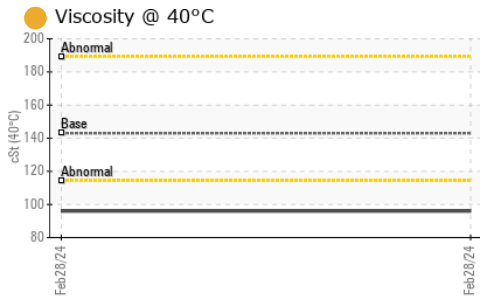
There is no indication of any contamination in the oil.

| | | | | | | |
|------------------|--------|-------------|-------|-------|-----|-----|
| Silicon | ppm | ASTM D5185m | >75 | 68 | --- | --- |
| 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 oil viscosity is lower than normal.

| | | | | | | |
|-------------|-----|-------------|-------|-------|-----|-----|
| Sodium | ppm | ASTM D5185m | >170 | 7 | --- | --- |
| Boron | ppm | ASTM D5185m | 400 | 139 | --- | --- |
| Barium | ppm | ASTM D5185m | 200 | 1 | --- | --- |
| Molybdenum | ppm | ASTM D5185m | 12 | <1 | --- | --- |
| Manganese | ppm | ASTM D5185m | | 11 | --- | --- |
| Magnesium | ppm | ASTM D5185m | 12 | 2 | --- | --- |
| Calcium | ppm | ASTM D5185m | 150 | 12 | --- | --- |
| Phosphorus | ppm | ASTM D5185m | 1650 | 1165 | --- | --- |
| Zinc | ppm | ASTM D5185m | 125 | 41 | --- | --- |
| Sulfur | ppm | ASTM D5185m | 22500 | 20747 | --- | --- |
| Visc @ 40°C | cSt | ASTM D445 | 143 | 96.0 | --- | --- |



Certificate L2367

Laboratory : WearCheck USA - 501 Madison Ave., Cary, NC 27513
Sample No. : PCA0118951
Lab Number : 06145444
Unique Number : 10970252
Test Package : FLEET

Received : 10 Apr 2024
Tested : 11 Apr 2024
Diagnosed : 14 Apr 2024 - Don Baldrige

PERDUE FARMS INC - GARAGE
 189 PERDUE WAY
 CANDOR, NC
 US 27229
 Contact: Service Manager

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)

T:
F: