



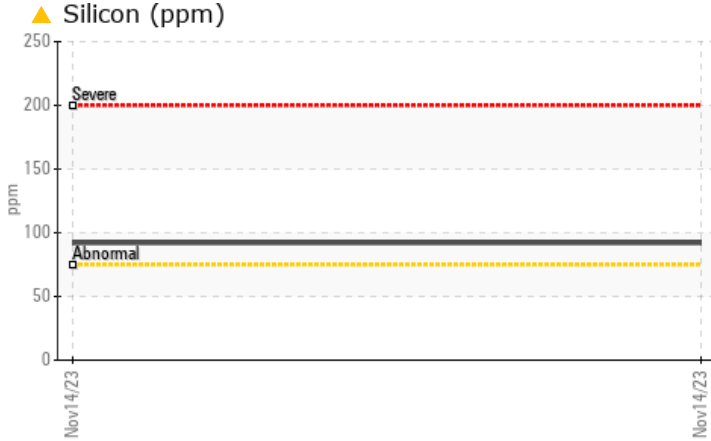
PROBLEM SUMMARY

Sample Rating Trend



Area
FLEET
 Machine Id
2126948 (S/N N603211)
 Component
Front Rear Differential
 Fluid
GEAR OIL SAE 75W90 (--- GAL)

COMPONENT CONDITION SUMMARY



RECOMMENDATION

No corrective action is recommended at this time.
 Resample at the next service interval to monitor.

PROBLEMATIC TEST RESULTS

| | | | | | | |
|---------------|-----|-------------|-----|-----------------|-----|-----|
| Sample Status | | | | ABNORMAL | --- | --- |
| Silicon | ppm | ASTM D5185m | >75 | ▲ 92 | --- | --- |

Customer Id: PERDILSC
 Sample No.: PCA0108111
 Lab Number: 06014352
 Test Package: FLEET



To manage this report scan the QR code

To discuss the diagnosis or test data:
 Don Baldrige +1
don.b505@comcast.net

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

RECOMMENDED ACTIONS

There are no recommended actions for this sample.

HISTORICAL DIAGNOSIS

OIL ANALYSIS REPORT

Sample Rating Trend



Area
FLEET
 Machine Id
2126948 (S/N N603211)
 Component
Front Rear Differential
 Fluid
GEAR OIL SAE 75W90 (--- GAL)

DIAGNOSIS

- Recommendation**
 No corrective action is recommended at this time. Resample at the next service interval to monitor.
- Wear**
 All component wear rates are normal.
- Contamination**
 Elemental level of silicon (Si) above normal indicating ingress of seal material.
- Fluid Condition**
 The condition of the oil is acceptable for the time in service.

SAMPLE INFORMATION

| method | limit/base | current | history1 | history2 |
|---------------|-----------------|--------------------|----------|----------|
| Sample Number | Client Info | PCA0108111 | --- | --- |
| Sample Date | Client Info | 14 Nov 2023 | --- | --- |
| Machine Age | mls Client Info | 152045 | --- | --- |
| Oil Age | mls Client Info | 152045 | --- | --- |
| Oil Changed | Client Info | Not Chngd | --- | --- |
| Sample Status | | ABNORMAL | --- | --- |

CONTAMINATION

| method | limit/base | current | history1 | history2 |
|--------|---------------|------------|----------|----------|
| Water | WC Method >.2 | NEG | --- | --- |

WEAR METALS

| method | limit/base | current | history1 | history2 |
|----------|----------------------|--------------|----------|----------|
| Iron | ppm ASTM D5185m >500 | 317 | --- | --- |
| Chromium | ppm ASTM D5185m >10 | 3 | --- | --- |
| Nickel | ppm ASTM D5185m >10 | 3 | --- | --- |
| Titanium | ppm ASTM D5185m | 0 | --- | --- |
| Silver | ppm ASTM D5185m | 0 | --- | --- |
| Aluminum | ppm ASTM D5185m >25 | 1 | --- | --- |
| Lead | ppm ASTM D5185m >25 | 6 | --- | --- |
| Copper | ppm ASTM D5185m >100 | 29 | --- | --- |
| Tin | ppm ASTM D5185m >10 | <1 | --- | --- |
| Vanadium | ppm ASTM D5185m | 0 | --- | --- |
| Cadmium | ppm ASTM D5185m | 0 | --- | --- |

ADDITIVES

| method | limit/base | current | history1 | history2 |
|------------|-----------------------|--------------|----------|----------|
| Boron | ppm ASTM D5185m 400 | 126 | --- | --- |
| Barium | ppm ASTM D5185m 200 | 3 | --- | --- |
| Molybdenum | ppm ASTM D5185m 12 | 0 | --- | --- |
| Manganese | ppm ASTM D5185m | 15 | --- | --- |
| Magnesium | ppm ASTM D5185m 12 | 0 | --- | --- |
| Calcium | ppm ASTM D5185m 150 | 17 | --- | --- |
| Phosphorus | ppm ASTM D5185m 1650 | 1164 | --- | --- |
| Zinc | ppm ASTM D5185m 125 | 16 | --- | --- |
| Sulfur | ppm ASTM D5185m 22500 | 27011 | --- | --- |

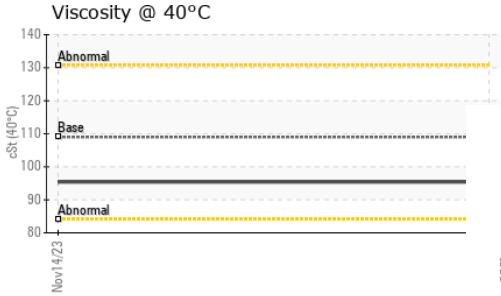
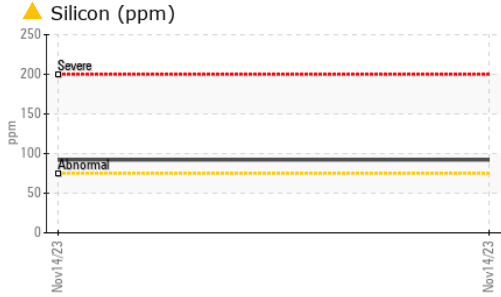
CONTAMINANTS

| method | limit/base | current | history1 | history2 |
|-----------|---------------------|-------------|----------|----------|
| Silicon | ppm ASTM D5185m >75 | ▲ 92 | --- | --- |
| Sodium | ppm ASTM D5185m | 8 | --- | --- |
| Potassium | ppm ASTM D5185m >20 | 3 | --- | --- |

VISUAL

| method | limit/base | current | history1 | history2 |
|------------------|----------------------|--------------|----------|----------|
| White Metal | scalar *Visual NONE | NONE | --- | --- |
| Yellow Metal | scalar *Visual NONE | NONE | --- | --- |
| Precipitate | scalar *Visual NONE | NONE | --- | --- |
| 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 | --- | --- |
| Free Water | scalar *Visual | NEG | --- | --- |

OIL ANALYSIS REPORT



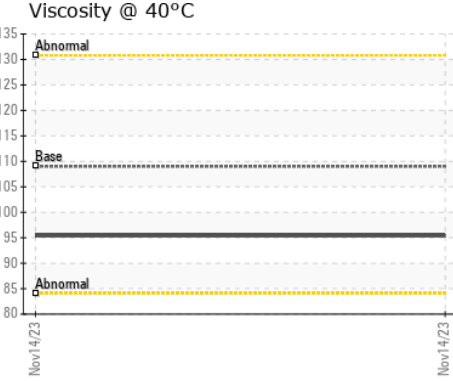
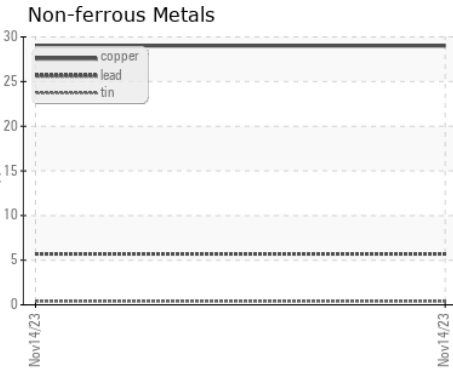
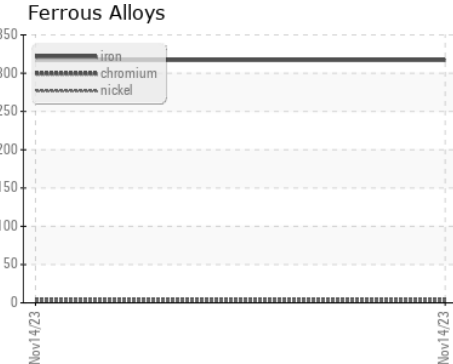
FLUID PROPERTIES

| method | limit/base | current | history1 | history2 |
|-------------|-------------------|-------------|----------|----------|
| Visc @ 40°C | cSt ASTM D445 109 | 95.4 | --- | --- |

SAMPLE IMAGES

| method | limit/base | current | history1 | history2 |
|--------|------------|----------|----------|----------|
| Color | | no image | no image | no image |
| Bottom | | no image | no image | no image |

GRAPHS



Certificate L2367

Laboratory : WearCheck USA - 501 Madison Ave., Cary, NC 27513
Sample No. : PCA0108111 **Received** : 21 Nov 2023
Lab Number : **06014352** **Diagnosed** : 24 Nov 2023
Unique Number : 10753496 **Diagnostician** : Don Baldrige
Test Package : FLEET

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)

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