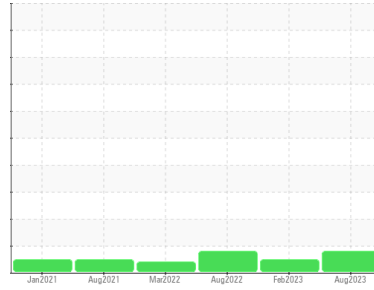


PROBLEM SUMMARY

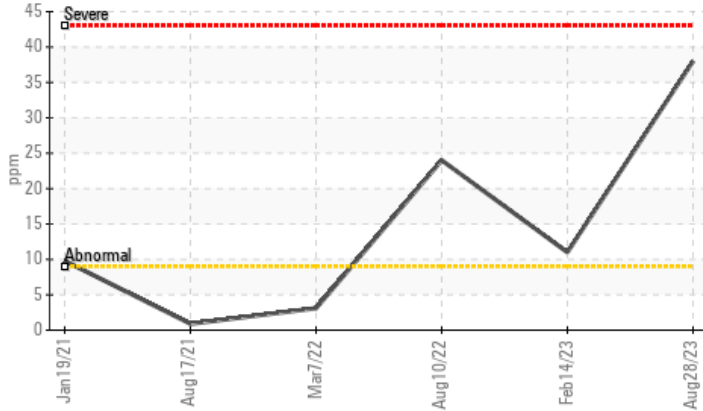
Sample Rating Trend



Machine Id
DT629
Component
Front Axle
Fluid
GEAR OIL SAE 75W90 (4 GAL)

COMPONENT CONDITION SUMMARY

▲ Aluminum (ppm)



RECOMMENDATION

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

PROBLEMATIC TEST RESULTS

| Sample Status | | | | ABNORMAL | NORMAL | ABNORMAL |
|---------------|-----|-------------|----|-----------------|--------|----------|
| Aluminum | ppm | ASTM D5185m | >9 | ▲ 38 | 11 | ▲ 24 |

Customer Id: NWWPIE
Sample No.: PCA0103232
Lab Number: 05942547
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

14 Feb 2023 Diag: Don Baldrige

NORMAL



Resample at the next service interval to monitor. All component wear rates are normal. There is no indication of any contamination in the oil. The condition of the oil is acceptable for the time in service.

view report



10 Aug 2022 Diag: Don Baldrige

WEAR



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. The aluminum level is abnormal. All other component wear rates are normal. There is no indication of any contamination in the oil. The condition of the oil is acceptable for the time in service.

view report



07 Mar 2022 Diag: Aaron Black

VIS DEBRIS



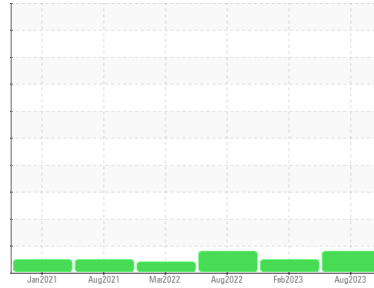
We advise that you check all areas where contaminants can enter the system. Please specify the brand, type, and viscosity of the oil on your next sample. We suspect that the abnormal contaminant(s) is the result of incorrect sampling technique. **DISCLAIMER:** Interpretation of laboratory tests is based on sample, as received from client. Source of sample and sampling technique cannot be verified. All component wear rates are normal. Moderate concentration of visible dirt/debris present in the oil. The oil is no longer serviceable due to the presence of contaminants.

view report



OIL ANALYSIS REPORT

Sample Rating Trend



WEAR



Machine Id
DT629
Component
Front Axle
Fluid
GEAR OIL SAE 75W90 (4 GAL)

DIAGNOSIS

▲ Recommendation

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

▲ Wear

The aluminum level is abnormal. All other component wear rates are normal.

Contamination

There is no indication of any contamination in the oil.

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 | | PCA0103232 | PCA0091233 | PCA0074789 |
| Sample Date | Client Info | | 28 Aug 2023 | 14 Feb 2023 | 10 Aug 2022 |
| Machine Age | mls | Client Info | 268894 | 239043 | 213364 |
| Oil Age | mls | Client Info | 213364 | 25679 | 213364 |
| Oil Changed | Client Info | | Not Chngd | Not Chngd | Changed |
| Sample Status | | | ABNORMAL | NORMAL | ABNORMAL |

WEAR METALS

| | method | limit/base | current | history1 | history2 |
|----------|--------|------------------|--------------|----------|-------------|
| Iron | ppm | ASTM D5185m >870 | 230 | 86 | 351 |
| Chromium | ppm | ASTM D5185m >3 | 2 | <1 | 3 |
| Nickel | ppm | ASTM D5185m >20 | 6 | 3 | 8 |
| Titanium | ppm | ASTM D5185m >4 | <1 | 0 | <1 |
| Silver | ppm | ASTM D5185m | 0 | 0 | 0 |
| Aluminum | ppm | ASTM D5185m >9 | ▲ 38 | 11 | ▲ 24 |
| Lead | ppm | ASTM D5185m >25 | 0 | 0 | 0 |
| Copper | ppm | ASTM D5185m >60 | <1 | <1 | <1 |
| Tin | ppm | ASTM D5185m >5 | 0 | 0 | 0 |
| Vanadium | ppm | ASTM D5185m | <1 | 0 | 0 |
| Cadmium | ppm | ASTM D5185m | 0 | 0 | 0 |

ADDITIVES

| | method | limit/base | current | history1 | history2 |
|------------|--------|-------------------|--------------|----------|----------|
| Boron | ppm | ASTM D5185m 400 | 236 | 205 | 177 |
| Barium | ppm | ASTM D5185m 200 | 0 | 0 | 1 |
| Molybdenum | ppm | ASTM D5185m 12 | 13 | 13 | <1 |
| Manganese | ppm | ASTM D5185m | 2 | 1 | 3 |
| Magnesium | ppm | ASTM D5185m 12 | 130 | 119 | 2 |
| Calcium | ppm | ASTM D5185m 150 | 181 | 177 | 6 |
| Phosphorus | ppm | ASTM D5185m 1650 | 1346 | 1202 | 1318 |
| Zinc | ppm | ASTM D5185m 125 | 180 | 179 | 7 |
| Sulfur | ppm | ASTM D5185m 22500 | 25056 | 21984 | 21982 |

CONTAMINANTS

| | method | limit/base | current | history1 | history2 |
|-----------|--------|------------------|--------------|----------|----------|
| Silicon | ppm | ASTM D5185m >285 | 23 | 23 | 30 |
| Sodium | ppm | ASTM D5185m | 1 | 1 | <1 |
| Potassium | ppm | ASTM D5185m >20 | <1 | 0 | 2 |

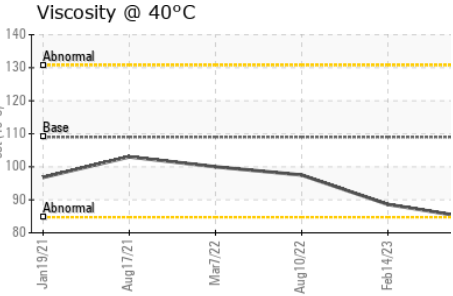
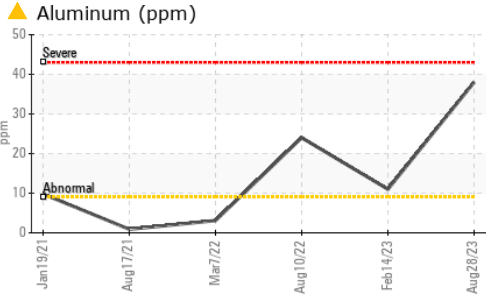
VISUAL

| | method | limit/base | current | history1 | history2 |
|------------------|--------|---------------|--------------|----------|----------|
| White Metal | scalar | *Visual NONE | NONE | NONE | NONE |
| Yellow Metal | scalar | *Visual NONE | NONE | NONE | NONE |
| Precipitate | scalar | *Visual NONE | NONE | NONE | NONE |
| Silt | scalar | *Visual NONE | NONE | NONE | NONE |
| Debris | scalar | *Visual NONE | NONE | 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 >0.2 | NEG | NEG | NEG |
| Free Water | scalar | *Visual | NEG | NEG | NEG |

FLUID PROPERTIES

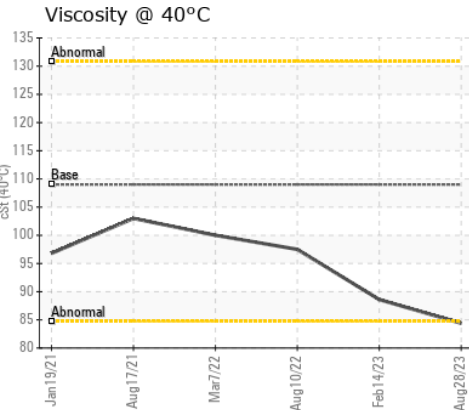
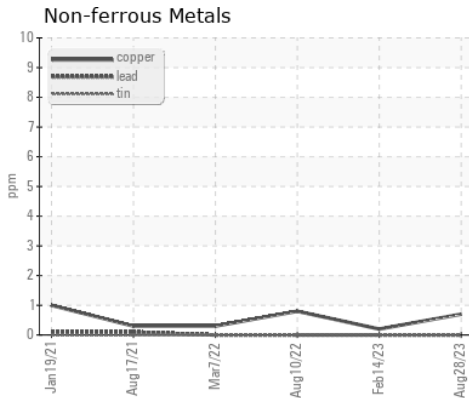
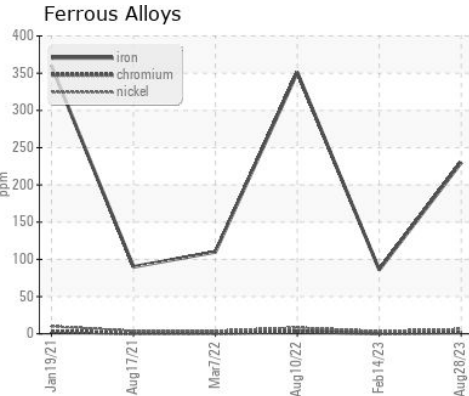
| | method | limit/base | current | history1 | history2 |
|-------------|--------|---------------|-------------|----------|----------|
| Visc @ 40°C | cSt | ASTM D445 109 | 84.4 | 88.6 | 97.5 |

OIL ANALYSIS REPORT



| 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. : PCA0103232
Lab Number : 05942547
Unique Number : 10633159
Test Package : FLEET

NW WHITE & CO - ANDERSON DIVISION
 2605 RIVER RD
 PIEDMONT, SC
 US 29673
 Contact: James Threatt
 jthreatt@nwwhite.com
 T: (864)918-4646
 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)