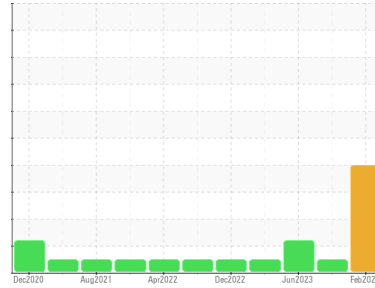


OIL ANALYSIS REPORT

Sample Rating Trend



Machine Id
DT713
 Component
Transmission (Auto)
 Fluid
COGNIS EMGARD 2805 ATF (--- QTS)

DIAGNOSIS

- Recommendation**
We advise that you check all areas where dirt can enter the system. Resample at the next service interval to monitor.
- Wear**
Gear wear is indicated. Clutch wear is indicated.
- Contamination**
Elemental levels of silicon (Si) and aluminum (Al) indicate alumina-silicate (coarse dirt) ingress.
- Fluid Condition**
The condition of the fluid is acceptable for the time in service.

SAMPLE INFORMATION

| method | limit/base | current | history1 | history2 |
|---------------|-------------|--------------------|-------------|-------------|
| Sample Number | Client Info | PCA0111588 | PCA0101831 | PCA0095256 |
| Sample Date | Client Info | 21 Feb 2024 | 18 Oct 2023 | 22 Jun 2023 |
| Machine Age | mls | Client Info | 150625 | 150625 |
| Oil Age | mls | Client Info | 150625 | 150625 |
| Oil Changed | Client Info | N/A | N/A | N/A |
| Sample Status | | ABNORMAL | NORMAL | ABNORMAL |

CONTAMINATION

| method | limit/base | current | history1 | history2 |
|--------|----------------|------------|----------|----------|
| Water | WC Method >0.1 | NEG | NEG | NEG |

WEAR METALS

| method | limit/base | current | history1 | history2 |
|----------|----------------------|--------------|----------|----------|
| Iron | ppm ASTM D5185m >160 | ▲ 133 | 28 | 52 |
| Chromium | ppm ASTM D5185m >5 | 1 | 0 | 0 |
| Nickel | ppm ASTM D5185m >5 | 0 | 0 | 0 |
| Titanium | ppm ASTM D5185m | <1 | 0 | <1 |
| Silver | ppm ASTM D5185m >5 | 0 | 0 | 0 |
| Aluminum | ppm ASTM D5185m >50 | ● 19 | 6 | 11 |
| Lead | ppm ASTM D5185m >50 | ▲ 57 | 35 | 21 |
| Copper | ppm ASTM D5185m >225 | 16 | 10 | 12 |
| Tin | ppm ASTM D5185m >10 | 1 | 1 | 1 |
| Vanadium | ppm ASTM D5185m | 0 | 0 | <1 |
| Cadmium | ppm ASTM D5185m | 0 | 0 | 0 |

ADDITIVES

| method | limit/base | current | history1 | history2 |
|------------|-----------------|-------------|----------|----------|
| Boron | ppm ASTM D5185m | 135 | 125 | 178 |
| Barium | ppm ASTM D5185m | 0 | 0 | 0 |
| Molybdenum | ppm ASTM D5185m | 5 | 4 | 1 |
| Manganese | ppm ASTM D5185m | 1 | <1 | 1 |
| Magnesium | ppm ASTM D5185m | 9 | 24 | 4 |
| Calcium | ppm ASTM D5185m | 210 | 214 | 125 |
| Phosphorus | ppm ASTM D5185m | 399 | 374 | 397 |
| Zinc | ppm ASTM D5185m | 83 | 99 | 40 |
| Sulfur | ppm ASTM D5185m | 3124 | 2004 | 2195 |

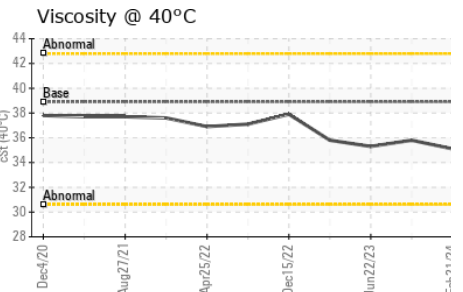
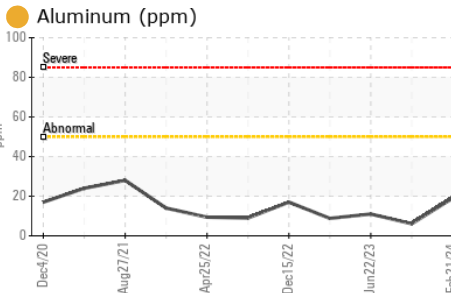
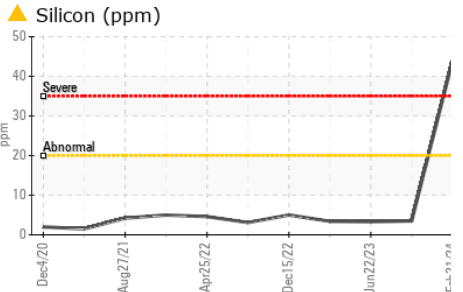
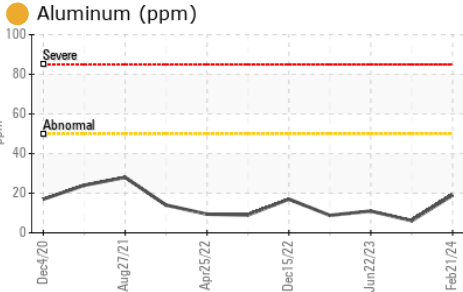
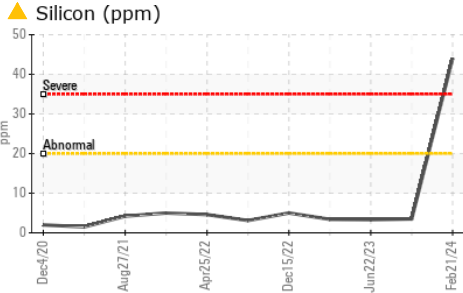
CONTAMINANTS

| method | limit/base | current | history1 | history2 |
|-----------|---------------------|-------------|----------|----------|
| Silicon | ppm ASTM D5185m >20 | ▲ 44 | 4 | 3 |
| Sodium | ppm ASTM D5185m | 7 | 5 | 7 |
| Potassium | ppm ASTM D5185m >20 | 2 | <1 | 0 |

VISUAL

| method | limit/base | current | history1 | history2 |
|------------------|----------------------|--------------|----------|----------------|
| White Metal | scalar *Visual NONE | NONE | NONE | ▲ MODER |
| 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 >0.1 | NEG | NEG | NEG |
| Free Water | scalar *Visual | NEG | NEG | NEG |

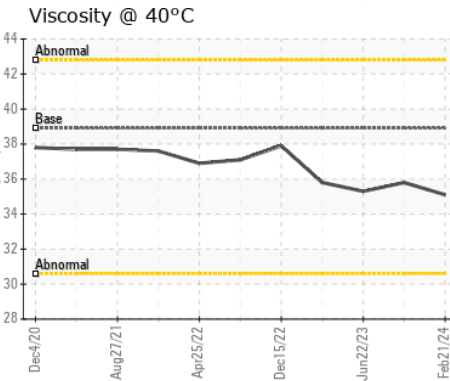
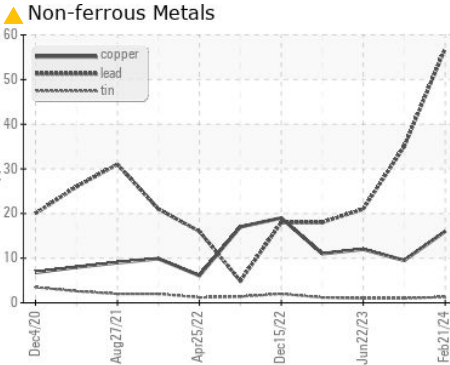
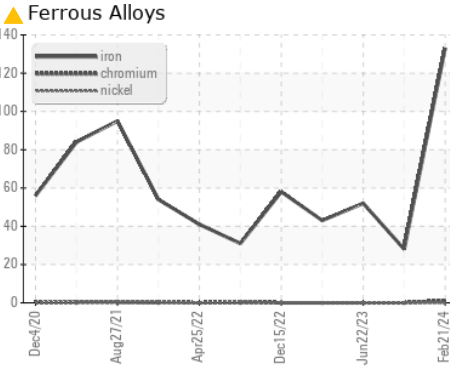
OIL ANALYSIS REPORT



| FLUID PROPERTIES | | method | limit/base | current | history1 | history2 |
|------------------|-----|-----------|------------|-------------|----------|----------|
| Visc @ 40°C | cSt | ASTM D445 | 38.9 | 35.1 | 35.8 | 35.3 |

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

GRAPHS



Laboratory : WearCheck USA - 501 Madison Ave., Cary, NC 27513
Sample No. : PCA0111588 **Received** : 12 Mar 2024
Lab Number : **06116242** **Tested** : 13 Mar 2024
Unique Number : 10925075 **Diagnosed** : 14 Mar 2024 - Jonathan Hester
Test Package : FLEET

NW WHITE & CO - BEAUFORT DIVISION
 1491 YENMASSEE HIGHWAY
 VARNVILLE, SC
 US 29944
 Contact: VINCENT BULLOCK
 bullockvince514@gmail.com

Certificate L2367
 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)