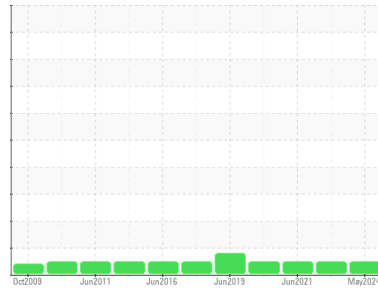




OIL ANALYSIS REPORT

Sample Rating Trend



NORMAL



Machine Id
R-K 1359
 Component
Hydraulic System
 Fluid
NOT GIVEN (--- GAL)

DIAGNOSIS

Recommendation

Resample at the next service interval to monitor. Please specify the brand, type, and viscosity of the oil on your next sample.

Wear

All 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 | | | WC0938784 | WC0826540 | WC0572808 |
| Sample Date | Client Info | | | 20 May 2024 | 19 Jun 2023 | 20 Jun 2021 |
| Machine Age | hrs | Client Info | | 1263 | 1263 | 0 |
| Oil Age | hrs | Client Info | | 1263 | 1263 | 0 |
| Oil Changed | | Client Info | | N/A | N/A | Not Changd |
| Sample Status | | | | NORMAL | NORMAL | NORMAL |

| 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 | >20 | 3 | 2 | 3 |
| Chromium | ppm | ASTM D5185m | >10 | <1 | 0 | <1 |
| Nickel | ppm | ASTM D5185m | >10 | 0 | 0 | 0 |
| Titanium | ppm | ASTM D5185m | | <1 | 0 | 0 |
| Silver | ppm | ASTM D5185m | | 0 | 0 | 0 |
| Aluminum | ppm | ASTM D5185m | >10 | 4 | <1 | 1 |
| Lead | ppm | ASTM D5185m | >10 | <1 | 0 | 0 |
| Copper | ppm | ASTM D5185m | >75 | 20 | 16 | 18 |
| Tin | ppm | ASTM D5185m | >10 | <1 | 0 | <1 |
| Antimony | ppm | ASTM D5185m | | --- | --- | 0 |
| Vanadium | ppm | ASTM D5185m | | 0 | 0 | 0 |
| Cadmium | ppm | ASTM D5185m | | <1 | 0 | <1 |

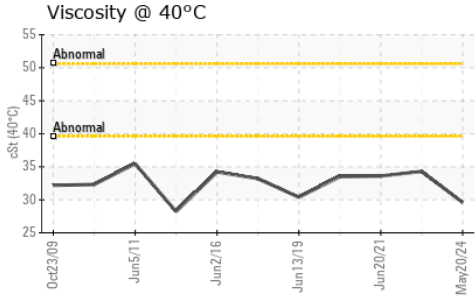
| ADDITIVES | | method | limit/base | current | history1 | history2 |
|------------|-----|-------------|------------|-------------|----------|----------|
| Boron | ppm | ASTM D5185m | | 0 | 0 | 2 |
| Barium | ppm | ASTM D5185m | | 28 | 13 | 21 |
| Molybdenum | ppm | ASTM D5185m | | 0 | 0 | <1 |
| Manganese | ppm | ASTM D5185m | | 0 | 0 | 0 |
| Magnesium | ppm | ASTM D5185m | | 16 | 18 | 17 |
| Calcium | ppm | ASTM D5185m | | 256 | 239 | 277 |
| Phosphorus | ppm | ASTM D5185m | | 450 | 430 | 476 |
| Zinc | ppm | ASTM D5185m | | 524 | 509 | 526 |
| Sulfur | ppm | ASTM D5185m | | 1424 | 1506 | 1306 |

| CONTAMINANTS | | method | limit/base | current | history1 | history2 |
|--------------|-----|-------------|------------|--------------|----------|----------|
| Silicon | ppm | ASTM D5185m | >20 | <1 | 0 | 0 |
| Sodium | ppm | ASTM D5185m | | 0 | 3 | 3 |
| Potassium | ppm | ASTM D5185m | >20 | 2 | <1 | 0 |

| 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 | >0.1 | NEG | NEG | NEG |
| Free Water | scalar | *Visual | | NEG | NEG | NEG |



OIL ANALYSIS REPORT



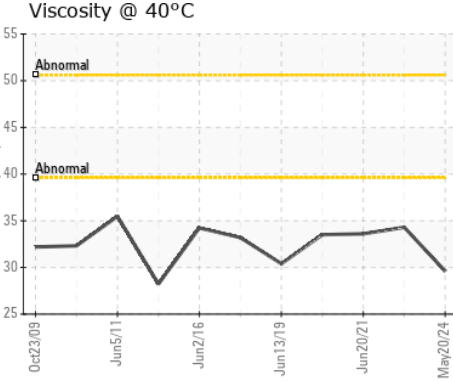
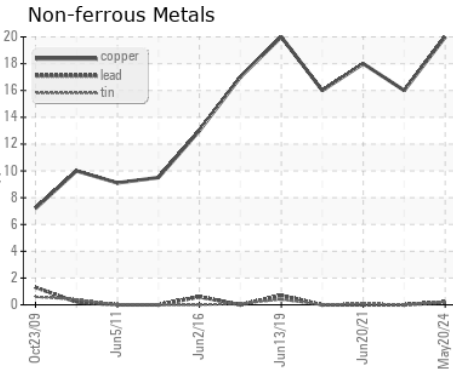
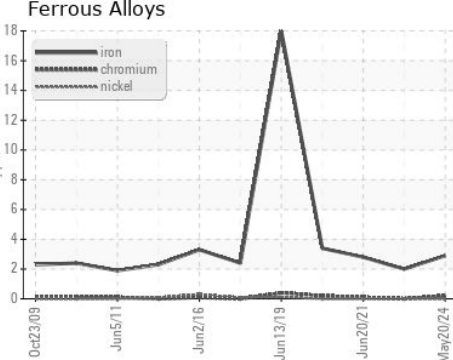
| FLUID PROPERTIES | method | limit/base | current | history1 | history2 |
|------------------|--------|------------|---------|----------|----------|
|------------------|--------|------------|---------|----------|----------|

| | | | | | |
|-------------|-----|-----------|-------------|------|------|
| Visc @ 40°C | cSt | ASTM D445 | 29.6 | 34.3 | 33.6 |
|-------------|-----|-----------|-------------|------|------|

| SAMPLE IMAGES | method | limit/base | current | history1 | history2 |
|---------------|--------|------------|---------|----------|----------|
|---------------|--------|------------|---------|----------|----------|

| | | | | | |
|--------|--|--|----------|----------|----------|
| Color | | | no image | no image | no image |
| Bottom | | | no image | no image | no image |

| GRAPHS |
|--------|
|--------|



Laboratory : WearCheck USA - 501 Madison Ave., Cary, NC 27513
Sample No. : WC0938784 **Received** : 05 Jun 2024
Lab Number : **06200966** **Tested** : 06 Jun 2024
Unique Number : 11063089 **Diagnosed** : 08 Jun 2024 - Don Baldrige
Test Package : FLEET

SYLACAUGA FIRE DEPT.
 300 N. NORTON AVE.
 SYLACAUGA, AL
 US 35150
 Contact: ADAM GARDNER
 fire@sylacaugaal.gov; agardner@sylacaugaal.gov

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)