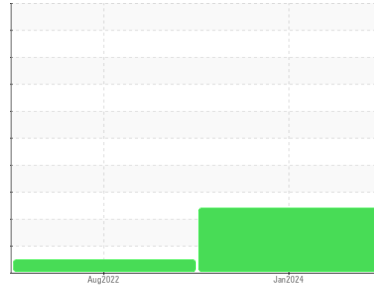




OIL ANALYSIS REPORT

Sample Rating Trend



Area
[20983]
 Machine Id
40-98
 Component
Right Final Drive
 Fluid
CONOCO PHILLIPS GUARDOL ECT 15W40 (--- GAL)

DIAGNOSIS

Recommendation

We advise that you check all areas where dirt can enter the system. Resample at the next service interval to monitor.

Wear

All component wear rates are normal.

Contamination

Elemental levels of silicon (Si) and aluminum (Al) indicate alumina-silicate (coarse dirt) ingress.

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 | | WC0836218 | WC0709443 | --- |
| Sample Date | Client Info | | 03 Jan 2024 | 17 Aug 2022 | --- |
| Machine Age | hrs | Client Info | 5084 | 4593 | --- |
| Oil Age | hrs | Client Info | 1084 | 500 | --- |
| Oil Changed | Client Info | | Not Chngd | Not Chngd | --- |
| Sample Status | | | ABNORMAL | NORMAL | --- |

CONTAMINATION

| | method | limit/base | current | history1 | history2 |
|-------|-----------|------------|------------|----------|----------|
| Water | WC Method | >0.2 | NEG | NEG | --- |

WEAR METALS

| | method | limit/base | current | history1 | history2 |
|----------|--------|------------------|--------------|----------|----------|
| Iron | ppm | ASTM D5185m >500 | 470 | 113 | --- |
| Chromium | ppm | ASTM D5185m >10 | 7 | 2 | --- |
| Nickel | ppm | ASTM D5185m >10 | <1 | <1 | --- |
| Titanium | ppm | ASTM D5185m | 2 | <1 | --- |
| Silver | ppm | ASTM D5185m | 0 | 0 | --- |
| Aluminum | ppm | ASTM D5185m >25 | ▲ 13 | 6 | --- |
| Lead | ppm | ASTM D5185m >25 | 0 | <1 | --- |
| Copper | ppm | ASTM D5185m >50 | 3 | 2 | --- |
| Tin | ppm | ASTM D5185m >10 | <1 | <1 | --- |
| Vanadium | ppm | ASTM D5185m | <1 | <1 | --- |
| Cadmium | ppm | ASTM D5185m | 0 | 0 | --- |

ADDITIVES

| | method | limit/base | current | history1 | history2 |
|------------|--------|------------------|-------------|----------|----------|
| Boron | ppm | ASTM D5185m 85 | 106 | 133 | --- |
| Barium | ppm | ASTM D5185m | 0 | <1 | --- |
| Molybdenum | ppm | ASTM D5185m | 12 | 12 | --- |
| Manganese | ppm | ASTM D5185m | 4 | 1 | --- |
| Magnesium | ppm | ASTM D5185m 350 | 653 | 581 | --- |
| Calcium | ppm | ASTM D5185m 1800 | 1398 | 1293 | --- |
| Phosphorus | ppm | ASTM D5185m 1000 | 1121 | 935 | --- |
| Zinc | ppm | ASTM D5185m 1100 | 1237 | 1119 | --- |
| Sulfur | ppm | ASTM D5185m 3500 | 3860 | 3461 | --- |

CONTAMINANTS

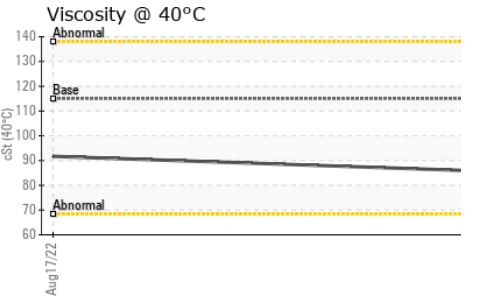
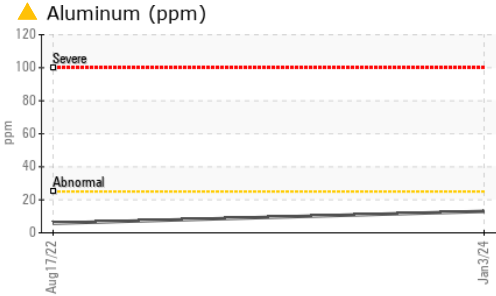
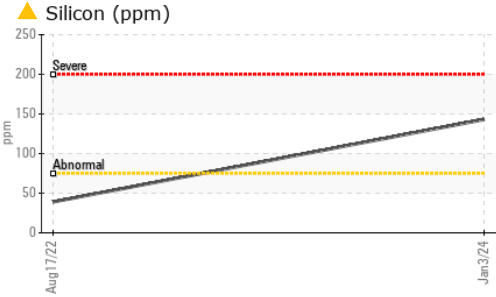
| | method | limit/base | current | history1 | history2 |
|-----------|--------|-----------------|--------------|----------|----------|
| Silicon | ppm | ASTM D5185m >75 | ▲ 143 | 39 | --- |
| Sodium | ppm | ASTM D5185m | 3 | 2 | --- |
| Potassium | ppm | ASTM D5185m >20 | 6 | 2 | --- |

VISUAL

| | method | limit/base | current | history1 | history2 |
|------------------|--------|---------------|--------------|----------|----------|
| White Metal | scalar | *Visual NONE | NONE | NONE | --- |
| Yellow Metal | scalar | *Visual NONE | NONE | NONE | --- |
| Precipitate | scalar | *Visual NONE | NONE | NONE | --- |
| Silt | scalar | *Visual NONE | MODER | LIGHT | --- |
| Debris | scalar | *Visual NONE | NONE | NONE | --- |
| Sand/Dirt | scalar | *Visual NONE | NONE | NONE | --- |
| Appearance | scalar | *Visual NORML | NORML | NORML | --- |
| Odor | scalar | *Visual NORML | NORML | NORML | --- |
| Emulsified Water | scalar | *Visual >0.2 | NEG | NEG | --- |
| Free Water | scalar | *Visual | NEG | NEG | --- |



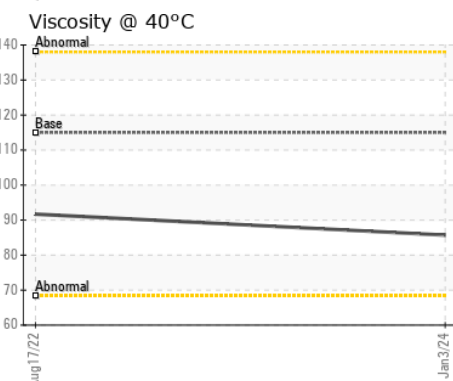
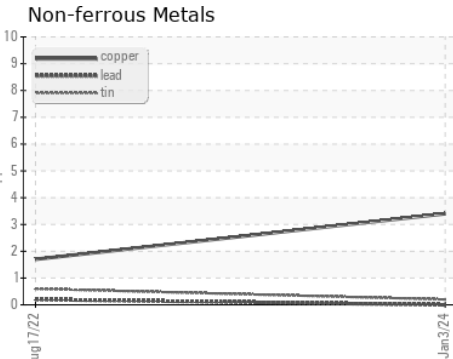
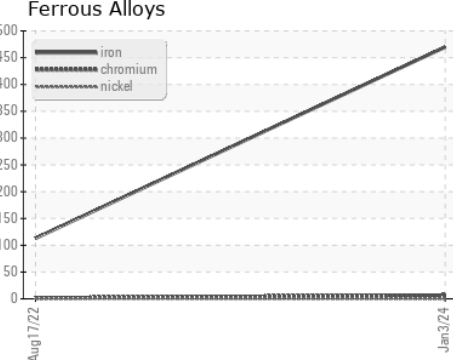
OIL ANALYSIS REPORT



| FLUID PROPERTIES | method | limit/base | current | history1 | history2 |
|------------------|--------|---------------|---------|----------|----------|
| Visc @ 40°C | cSt | ASTM D445 115 | 85.7 | 91.7 | --- |

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

GRAPHS



Certificate L2367

Laboratory : WearCheck USA - 501 Madison Ave., Cary, NC 27513
Sample No. : WC0836218 **Received** : 09 Jan 2024
Lab Number : 06056096 **Diagnosed** : 10 Jan 2024
Unique Number : 10822045 **Diagnostician** : Angela Borella
Test Package : CONST

MANHATTAN ROAD AND BRIDGE
 5601 S 122ND E AVE
 TULSA, OK
 US 74146
 Contact: BEN CALDWELL
 kevin.marson@wearcheck.com
 T: (918)728-5749
 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)