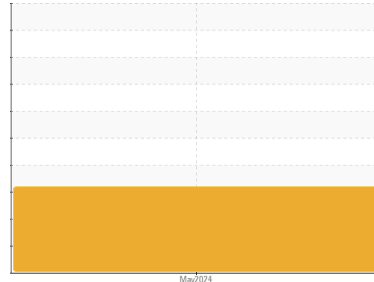




OIL ANALYSIS REPORT

Sample Rating Trend



WATER



Area
PIPELINE
 Machine Id
PU-56 PU-56
 Component
Bearing
 Fluid
SHELL Spirax S4 CX 30 (--- 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 dirt/seal material. There is a light concentration of water present 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 | | WC0944294 | --- | --- |
| Sample Date | Client Info | | 31 May 2024 | --- | --- |
| Machine Age | hrs | Client Info | 0 | --- | --- |
| Oil Age | hrs | Client Info | 0 | --- | --- |
| Oil Changed | Client Info | | Not Changed | --- | --- |
| Sample Status | | | ABNORMAL | --- | --- |

| WEAR METALS | method | limit/base | current | history1 | history2 |
|-------------|--------|------------------|--------------|----------|----------|
| Iron | ppm | ASTM D5185m >200 | 170 | --- | --- |
| Chromium | ppm | ASTM D5185m >5 | 1 | --- | --- |
| Nickel | ppm | ASTM D5185m >5 | <1 | --- | --- |
| Titanium | ppm | ASTM D5185m >5 | 2 | --- | --- |
| Silver | ppm | ASTM D5185m | 0 | --- | --- |
| Aluminum | ppm | ASTM D5185m >25 | 3 | --- | --- |
| Lead | ppm | ASTM D5185m >50 | 2 | --- | --- |
| Copper | ppm | ASTM D5185m >150 | 42 | --- | --- |
| Tin | ppm | ASTM D5185m >10 | <1 | --- | --- |
| Vanadium | ppm | ASTM D5185m | <1 | --- | --- |
| Cadmium | ppm | ASTM D5185m | <1 | --- | --- |

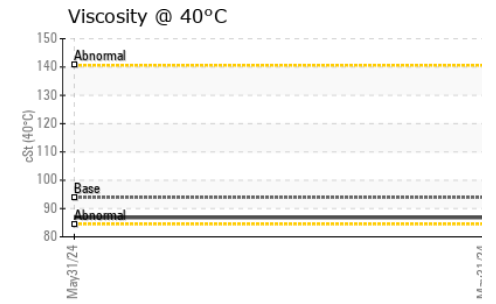
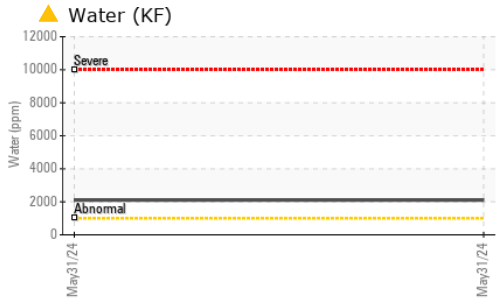
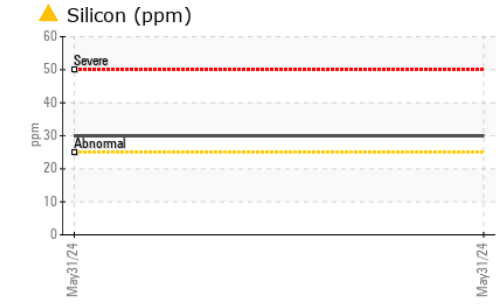
| ADDITIVES | method | limit/base | current | history1 | history2 |
|------------|--------|-------------|-------------|----------|----------|
| Boron | ppm | ASTM D5185m | 16 | --- | --- |
| Barium | ppm | ASTM D5185m | 0 | --- | --- |
| Molybdenum | ppm | ASTM D5185m | 2 | --- | --- |
| Manganese | ppm | ASTM D5185m | 1 | --- | --- |
| Magnesium | ppm | ASTM D5185m | 19 | --- | --- |
| Calcium | ppm | ASTM D5185m | 3311 | --- | --- |
| Phosphorus | ppm | ASTM D5185m | 997 | --- | --- |
| Zinc | ppm | ASTM D5185m | 1173 | --- | --- |
| Sulfur | ppm | ASTM D5185m | 4327 | --- | --- |

| CONTAMINANTS | method | limit/base | current | history1 | history2 |
|--------------|--------|------------------|----------------|----------|----------|
| Silicon | ppm | ASTM D5185m >25 | ▲ 30 | --- | --- |
| Sodium | ppm | ASTM D5185m | 0 | --- | --- |
| Potassium | ppm | ASTM D5185m >20 | 3 | --- | --- |
| Water | % | ASTM D6304 >0.1 | ▲ 0.210 | --- | --- |
| ppm Water | ppm | ASTM D6304 >1000 | ▲ 2100 | --- | --- |

| 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 >0.1 | 0.2% | --- | --- |
| Free Water | scalar | *Visual | NEG | --- | --- |



OIL ANALYSIS REPORT



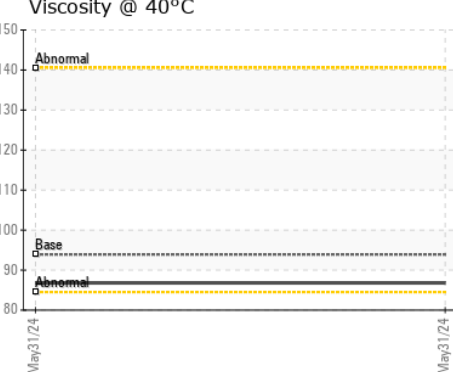
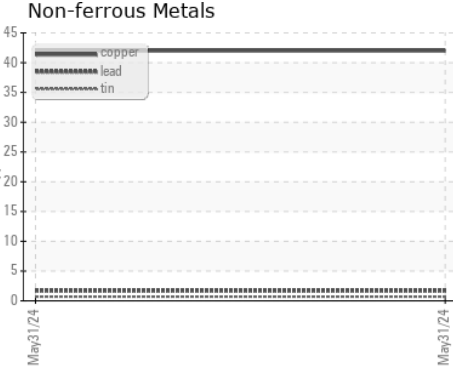
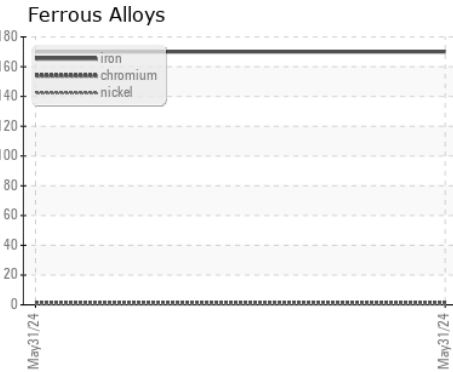
FLUID PROPERTIES

| method | limit/base | current | history1 | history2 |
|-------------|---------------|---------|-------------|----------|
| Visc @ 40°C | cSt ASTM D445 | 93.9 | 86.8 | --- |

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. : WC0944294 **Received** : 06 Jun 2024
Lab Number : 06202178 **Tested** : 10 Jun 2024
Unique Number : 11069639 **Diagnosed** : 10 Jun 2024 - Don Baldrige
Test Package : CONST (Additional Tests: KF)

COVIA - OREGON - 004
 1446 DEVILS BACKBONE ROAD
 OREGON, IL
 US 61061-0156
 Contact: Brian Bunnell
 brian.bunnell@coviacorp.com
 T: (815)677-8700
 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)