



OIL ANALYSIS REPORT

Sample Rating Trend



ISO



Machine Id
PINCH ROLL (S/N M1155)
 Component
Lower Gearbox
 Fluid
{not provided} (--- GAL)

DIAGNOSIS

Recommendation

We recommend you service the filters on this component if applicable. 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 a high amount of silt (particulates < 14 microns in size) present in the oil.

Fluid Condition

The AN level is acceptable for this fluid. The condition of the oil is suitable for further service.

| SAMPLE INFORMATION | | method | limit/base | current | history1 | history2 |
|--------------------|-------------|-------------|------------|--------------------|----------|----------|
| Sample Number | Client Info | | | PH0003785 | --- | --- |
| Sample Date | Client Info | | | 10 Jun 2024 | --- | --- |
| Machine Age | hrs | Client Info | | 3279 | --- | --- |
| Oil Age | hrs | Client Info | | 0 | --- | --- |
| Oil Changed | Client Info | | | Not Changed | --- | --- |
| Sample Status | | | | ABNORMAL | --- | --- |

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

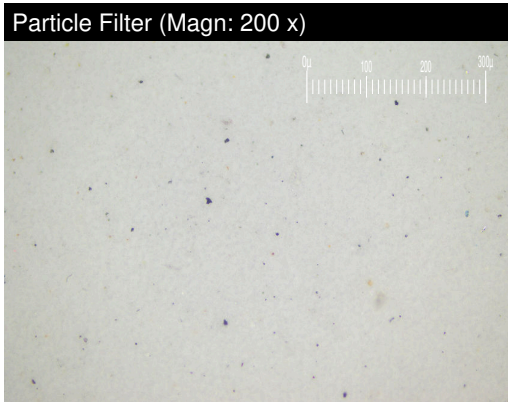
| WEAR METALS | | method | limit/base | current | history1 | history2 |
|-------------|-----|-------------|------------|--------------|----------|----------|
| Iron | ppm | ASTM D5185m | >200 | 4 | --- | --- |
| Chromium | ppm | ASTM D5185m | >15 | <1 | --- | --- |
| Nickel | ppm | ASTM D5185m | >15 | 0 | --- | --- |
| Titanium | ppm | ASTM D5185m | | 0 | --- | --- |
| Silver | ppm | ASTM D5185m | | 0 | --- | --- |
| Aluminum | ppm | ASTM D5185m | >25 | 2 | --- | --- |
| Lead | ppm | ASTM D5185m | >100 | 0 | --- | --- |
| Copper | ppm | ASTM D5185m | >200 | 0 | --- | --- |
| Tin | ppm | ASTM D5185m | >25 | 0 | --- | --- |
| Vanadium | ppm | ASTM D5185m | | 0 | --- | --- |
| Cadmium | ppm | ASTM D5185m | | 0 | --- | --- |

| ADDITIVES | | method | limit/base | current | history1 | history2 |
|------------|-----|-------------|------------|--------------|----------|----------|
| Boron | ppm | ASTM D5185m | | 23 | --- | --- |
| Barium | ppm | ASTM D5185m | | 2 | --- | --- |
| Molybdenum | ppm | ASTM D5185m | | 0 | --- | --- |
| Manganese | ppm | ASTM D5185m | | 0 | --- | --- |
| Magnesium | ppm | ASTM D5185m | | <1 | --- | --- |
| Calcium | ppm | ASTM D5185m | | 4 | --- | --- |
| Phosphorus | ppm | ASTM D5185m | | 204 | --- | --- |
| Zinc | ppm | ASTM D5185m | | <1 | --- | --- |
| Sulfur | ppm | ASTM D5185m | | 5740 | --- | --- |

| CONTAMINANTS | | method | limit/base | current | history1 | history2 |
|--------------|-----|-------------|------------|----------|----------|----------|
| Silicon | ppm | ASTM D5185m | >50 | 7 | --- | --- |
| Sodium | ppm | ASTM D5185m | | 0 | --- | --- |
| Potassium | ppm | ASTM D5185m | >20 | 1 | --- | --- |

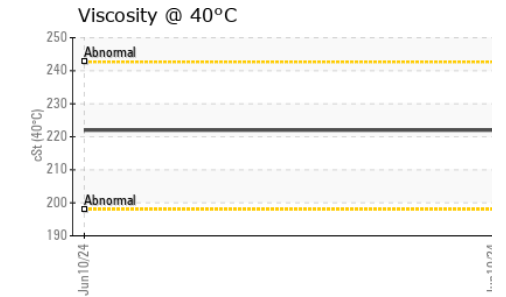
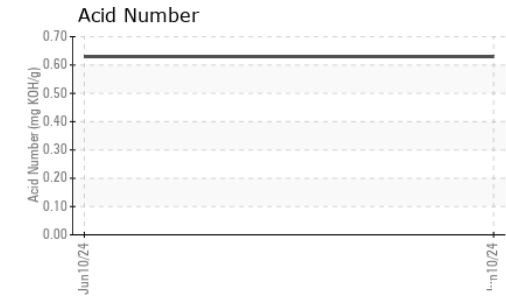
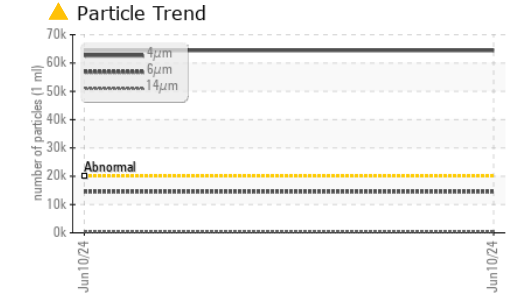
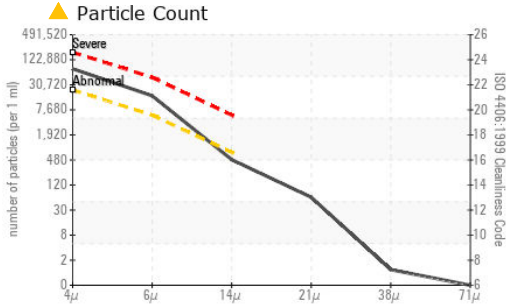
| FLUID CLEANLINESS | | method | limit/base | current | history1 | history2 |
|-------------------|--------------|-----------|-------------------|---------|----------|----------|
| Particles >4µm | ASTM D7647 | >20000 | ▲ 64427 | --- | --- | |
| Particles >6µm | ASTM D7647 | >5000 | ▲ 14544 | --- | --- | |
| Particles >14µm | ASTM D7647 | >640 | 430 | --- | --- | |
| Particles >21µm | ASTM D7647 | >160 | 54 | --- | --- | |
| Particles >38µm | ASTM D7647 | >40 | 1 | --- | --- | |
| Particles >71µm | ASTM D7647 | >10 | 0 | --- | --- | |
| Oil Cleanliness | ISO 4406 (c) | >21/19/16 | ▲ 23/21/16 | --- | --- | |

| FLUID DEGRADATION | | method | limit/base | current | history1 | history2 |
|-------------------|----------|------------|------------|-------------|----------|----------|
| Acid Number (AN) | mg KOH/g | ASTM D8045 | | 0.63 | --- | --- |





OIL ANALYSIS REPORT



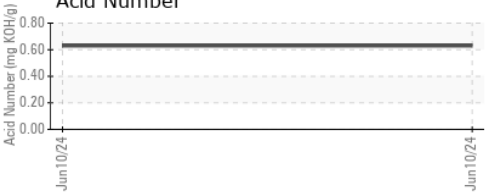
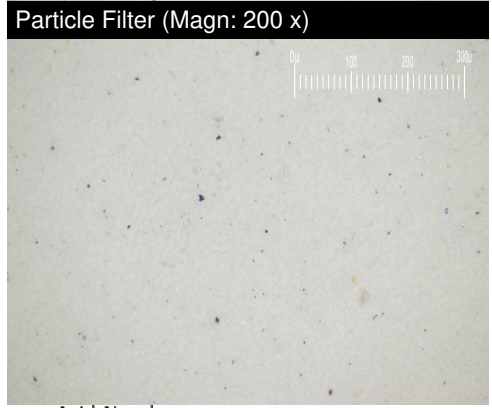
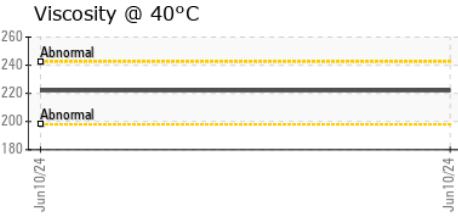
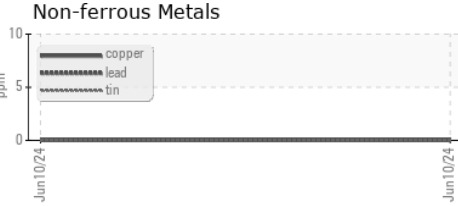
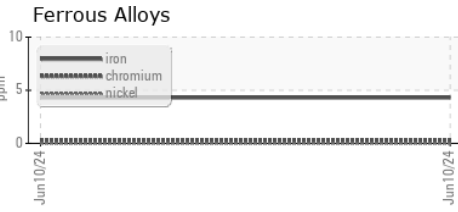
| VISUAL | method | limit/base | current | history1 | history2 |
|------------------|--------|------------|---------|----------|----------|
| White Metal | scalar | *Visual | NONE | NONE | --- |
| Yellow Metal | scalar | *Visual | NONE | NONE | --- |
| Precipitate | scalar | *Visual | NONE | NONE | ---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

| FLUID PROPERTIES | method | limit/base | current | history1 | history2 |
|------------------|--------|------------|---------|----------|----------|
| Visc @ 40°C | cSt | ASTM D445 | 222 | --- | --- |

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

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

GRAPHS



Laboratory : WearCheck USA - 501 Madison Ave., Cary, NC 27513
Sample No. : PH0003785 **Received** : 19 Jun 2024
Lab Number : 06214662 **Tested** : 24 Jun 2024
Unique Number : 11087526 **Diagnosed** : 24 Jun 2024 - Doug Bogart
Test Package : PLANT (Additional Tests: PrtFilter)

WILLBANKS METALS
 1155 NE 28TH ST
 FORT WORTH, TX
 US 76106
 Contact: Service Manager

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)

T:
F: