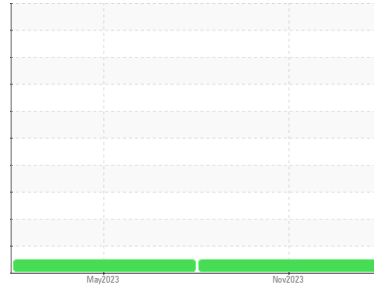




OIL ANALYSIS REPORT

Sample Rating Trend

NORMAL



Machine Id
1300 PRS 006

Component
Hydraulic System

Fluid
AW HYDRAULIC OIL ISO 68 (138 GAL)

DIAGNOSIS

Recommendation

Resample at the next service interval to monitor.

Wear

All component wear rates are normal.

Contamination

There is no indication of any contamination in the oil. The amount and size of particulates present in the system are acceptable.

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 | PH0001940 | PH0000841 | --- |
| Sample Date | Client Info | 05 Nov 2023 | 10 May 2023 | --- |
| Machine Age | hrs Client Info | 0 | 0 | --- |
| Oil Age | hrs Client Info | 0 | 0 | --- |
| Oil Changed | Client Info | N/A | N/A | --- |
| Sample Status | | NORMAL | NORMAL | --- |

CONTAMINATION

| method | limit/base | current | history1 | history2 |
|--------|-----------------|------------|----------|----------|
| Water | WC Method >0.05 | NEG | NEG | --- |

WEAR METALS

| method | limit/base | current | history1 | history2 |
|----------|---------------------|----------|----------|----------|
| Iron | ppm ASTM D5185m >20 | 0 | 0 | --- |
| Chromium | ppm ASTM D5185m >20 | 0 | 0 | --- |
| Nickel | ppm ASTM D5185m >20 | 0 | 0 | --- |
| Titanium | ppm ASTM D5185m | 0 | <1 | --- |
| Silver | ppm ASTM D5185m | 0 | 0 | --- |
| Aluminum | ppm ASTM D5185m >20 | 0 | 0 | --- |
| Lead | ppm ASTM D5185m >20 | 0 | 0 | --- |
| Copper | ppm ASTM D5185m >20 | 2 | 3 | --- |
| Tin | ppm ASTM D5185m >20 | 0 | 0 | --- |
| Vanadium | ppm ASTM D5185m | 0 | 0 | --- |
| Cadmium | ppm ASTM D5185m | 0 | 0 | --- |

ADDITIVES

| method | limit/base | current | history1 | history2 |
|------------|----------------------|------------|----------|----------|
| Boron | ppm ASTM D5185m 5 | 0 | 0 | --- |
| Barium | ppm ASTM D5185m 5 | 0 | 0 | --- |
| Molybdenum | ppm ASTM D5185m 5 | 0 | 0 | --- |
| Manganese | ppm ASTM D5185m | 0 | 0 | --- |
| Magnesium | ppm ASTM D5185m 25 | 0 | 3 | --- |
| Calcium | ppm ASTM D5185m 200 | 23 | 23 | --- |
| Phosphorus | ppm ASTM D5185m 300 | 335 | 338 | --- |
| Zinc | ppm ASTM D5185m 370 | 418 | 412 | --- |
| Sulfur | ppm ASTM D5185m 2500 | 733 | 625 | --- |

CONTAMINANTS

| method | limit/base | current | history1 | history2 |
|-----------|---------------------|----------|----------|----------|
| Silicon | ppm ASTM D5185m >15 | 0 | <1 | --- |
| Sodium | ppm ASTM D5185m | 0 | <1 | --- |
| Potassium | ppm ASTM D5185m >20 | 0 | <1 | --- |

FLUID CLEANLINESS

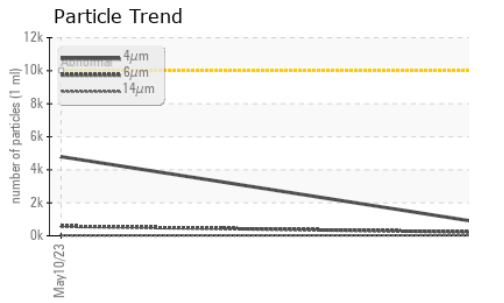
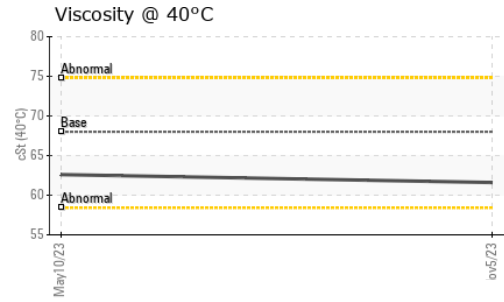
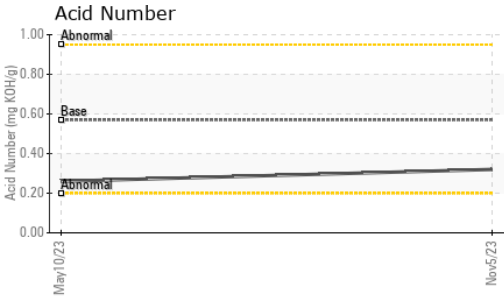
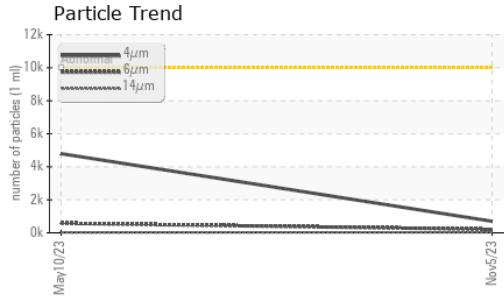
| method | limit/base | current | history1 | history2 |
|-----------------|------------------------|-----------------|----------|----------|
| Particles >4µm | ASTM D7647 >10000 | 699 | 4795 | --- |
| Particles >6µm | ASTM D7647 >2500 | 204 | 579 | --- |
| Particles >14µm | ASTM D7647 >320 | 26 | 16 | --- |
| Particles >21µm | ASTM D7647 >80 | 6 | 3 | --- |
| Particles >38µm | ASTM D7647 >20 | 0 | 0 | --- |
| Particles >71µm | ASTM D7647 >4 | 0 | 0 | --- |
| Oil Cleanliness | ISO 4406 (c) >20/18/15 | 17/15/12 | 19/16/11 | --- |

FLUID DEGRADATION

| method | limit/base | current | history1 | history2 |
|------------------|--------------------------|-------------|----------|----------|
| Acid Number (AN) | mg KOH/g ASTM D8045 0.57 | 0.32 | 0.26 | --- |



OIL ANALYSIS REPORT



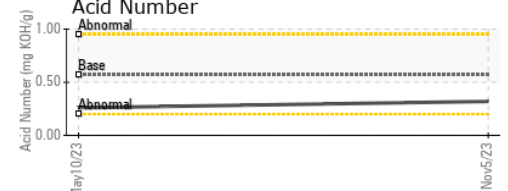
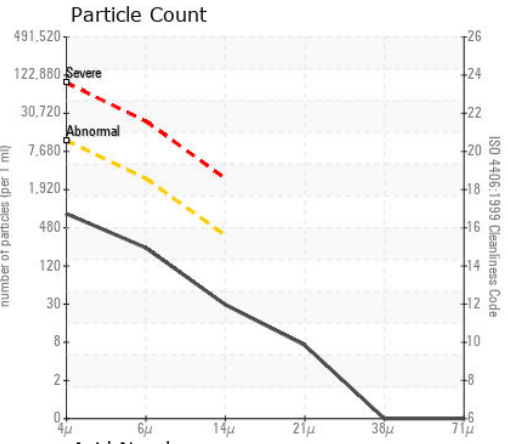
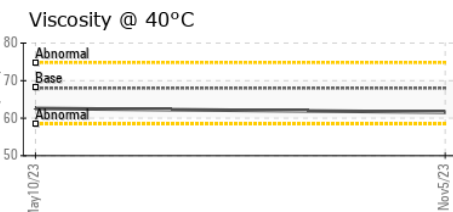
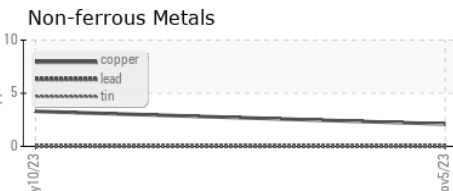
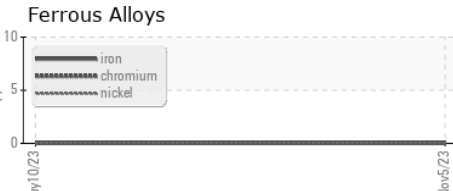
| VISUAL | method | limit/base | current | history1 | history2 |
|------------------|--------|------------|---------|----------|----------|
| White Metal | scalar | *Visual | NONE | NONE | --- |
| Yellow Metal | scalar | *Visual | NONE | NONE | --- |
| Precipitate | scalar | *Visual | NONE | NONE | --- |
| 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 | >0.05 | NEG | --- |
| Free Water | scalar | *Visual | | NEG | --- |

| FLUID PROPERTIES | method | limit/base | current | history1 | history2 |
|------------------|--------|--------------|-------------|----------|----------|
| Visc @ 40°C | cSt | ASTM D445 68 | 61.6 | 62.6 | --- |

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

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

GRAPHS



Certificate L2367

Laboratory : WearCheck USA - 501 Madison Ave., Cary, NC 27513
Sample No. : PH0001940 **Received** : 14 Nov 2023
Lab Number : **06007633** **Diagnosed** : 20 Nov 2023
Unique Number : 10741395 **Diagnostician** : Angela Borella
Test Package : PLANT

APCOM
 127 SOUTHEAST PARKWAY
 FRANKLIN, TN
 US 37064
 Contact: R Filipovic
 rfilipovic@apcom.com

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: