



OIL ANALYSIS REPORT

Sample Rating Trend



WEAR



Machine Id
PENTAGON 27
 Component
Hydraulic System
 Fluid
HYDRO BLUE 32 (--- GAL)

DIAGNOSIS

▲ Recommendation

We recommend you service the filters on this component if applicable. We recommend an early resample to monitor this condition. Please note that this is a corrected copy for data entry updates for unit information.

▲ Wear

The iron level is abnormal. All other 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 | PH0003732 | --- | --- |
| Sample Date | Client Info | 03 Apr 2024 | --- | --- |
| Machine Age | hrs | Client Info | 0 | --- |
| Oil Age | hrs | Client Info | 0 | --- |
| Oil Changed | Client Info | N/A | --- | --- |
| Sample Status | | ABNORMAL | --- | --- |

CONTAMINATION

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

WEAR METALS

| method | limit/base | current | history1 | history2 | | |
|----------|------------|-------------|----------|-------------|-----|-----|
| Iron | ppm | ASTM D5185m | >20 | ▲ 68 | --- | --- |
| Chromium | ppm | ASTM D5185m | >20 | 0 | --- | --- |
| Nickel | ppm | ASTM D5185m | >20 | 0 | --- | --- |
| Titanium | ppm | ASTM D5185m | | 0 | --- | --- |
| Silver | ppm | ASTM D5185m | | 0 | --- | --- |
| Aluminum | ppm | ASTM D5185m | >20 | 0 | --- | --- |
| Lead | ppm | ASTM D5185m | >20 | 0 | --- | --- |
| Copper | ppm | ASTM D5185m | >20 | 0 | --- | --- |
| Tin | ppm | ASTM D5185m | >20 | 0 | --- | --- |
| Vanadium | ppm | ASTM D5185m | | 0 | --- | --- |
| Cadmium | ppm | ASTM D5185m | | 0 | --- | --- |

ADDITIVES

| method | limit/base | current | history1 | history2 | | |
|------------|------------|-------------|----------|--------------|-----|-----|
| Boron | ppm | ASTM D5185m | | 0 | --- | --- |
| Barium | ppm | ASTM D5185m | | 0 | --- | --- |
| Molybdenum | ppm | ASTM D5185m | | 0 | --- | --- |
| Manganese | ppm | ASTM D5185m | | <1 | --- | --- |
| Magnesium | ppm | ASTM D5185m | | 88 | --- | --- |
| Calcium | ppm | ASTM D5185m | | 80 | --- | --- |
| Phosphorus | ppm | ASTM D5185m | | 352 | --- | --- |
| Zinc | ppm | ASTM D5185m | | 401 | --- | --- |
| Sulfur | ppm | ASTM D5185m | | 5742 | --- | --- |

CONTAMINANTS

| method | limit/base | current | history1 | history2 | | |
|-----------|------------|-------------|----------|----------|-----|-----|
| Silicon | ppm | ASTM D5185m | >15 | 8 | --- | --- |
| Sodium | ppm | ASTM D5185m | | 2 | --- | --- |
| Potassium | ppm | ASTM D5185m | >20 | 0 | --- | --- |

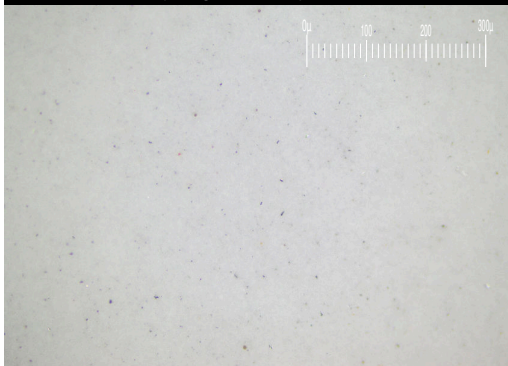
FLUID CLEANLINESS

| method | limit/base | current | history1 | history2 | |
|-----------------|--------------|-----------|-------------------|----------|-----|
| Particles >4µm | ASTM D7647 | >10000 | ▲ 178617 | --- | --- |
| Particles >6µm | ASTM D7647 | >2500 | ▲ 56993 | --- | --- |
| Particles >14µm | ASTM D7647 | >320 | 40 | --- | --- |
| Particles >21µm | ASTM D7647 | >80 | 6 | --- | --- |
| Particles >38µm | ASTM D7647 | >20 | 0 | --- | --- |
| Particles >71µm | ASTM D7647 | >4 | 0 | --- | --- |
| Oil Cleanliness | ISO 4406 (c) | >20/18/15 | ▲ 25/23/12 | --- | --- |

FLUID DEGRADATION

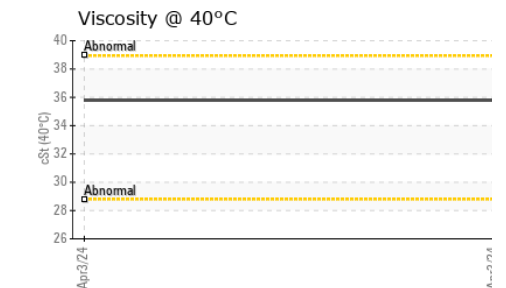
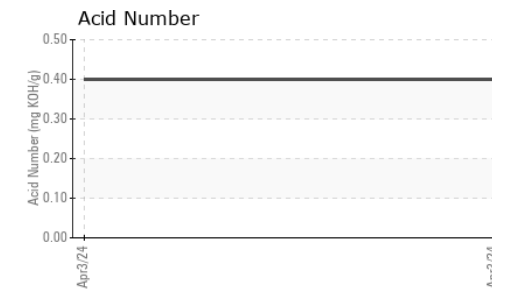
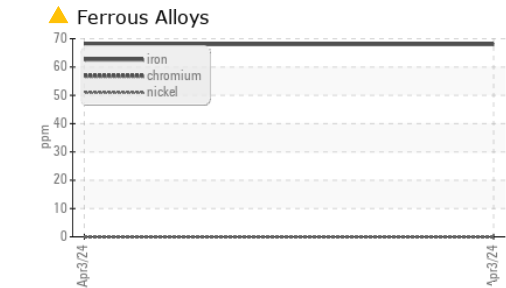
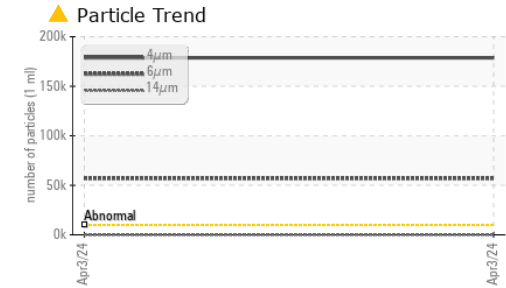
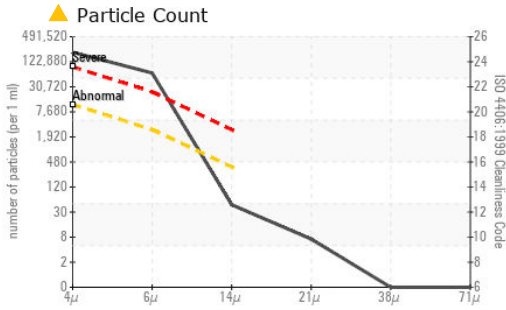
| method | limit/base | current | history1 | history2 | | |
|------------------|------------|------------|----------|-------------|-----|-----|
| Acid Number (AN) | mg KOH/g | ASTM D8045 | | 0.40 | --- | --- |

Particle Filter (Magn: 200 x)





OIL ANALYSIS REPORT



Laboratory : WearCheck USA - 501 Madison Ave., Cary, NC 27513
Sample No. : PH0003732
Lab Number : 06145853
Unique Number : 10975931
Test Package : PLANT (Additional Tests: PrtFilter)
Received : 11 Apr 2024
Tested : 19 Apr 2024
Diagnosed : 19 Apr 2024 - Doug Bogart

ASHLAND INDUSTRIAL SERVICES
 15842 ELM DRIVE
 NEW FREEDOM, PA
 US 17349
 Contact: CHARLENE WARCHOL
 cwarchol@aisco.org

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)

| 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 | 35.8 | --- | --- |

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

GRAPHS

