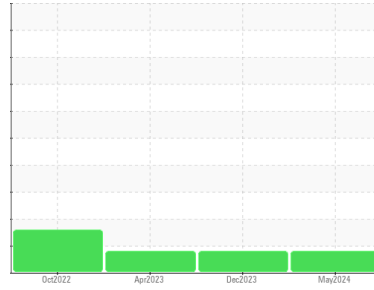




OIL ANALYSIS REPORT

Sample Rating Trend



WEAR



Area

HOTLINE/120 MILL

Machine Id

120 STAND 4B GEN WEST BRG 1415-036-0112

Component

Bearing

Fluid

ROYAL PURPLE SYNFILM GT 68 (25 GAL)

DIAGNOSIS

Recommendation

No corrective action is recommended at this time. Resample at the next service interval to monitor.

Wear

The lead 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 acceptable for the time in service.

SAMPLE INFORMATION

| | method | limit/base | current | history1 | history2 |
|---------------|-------------|-------------|--------------------|-------------|-------------|
| Sample Number | Client Info | | KFS0005158 | KFS0002504 | KFS0003470 |
| Sample Date | Client Info | | 10 May 2024 | 20 Dec 2023 | 17 Apr 2023 |
| Machine Age | hrs | Client Info | 0 | 0 | 0 |
| Oil Age | hrs | Client Info | 0 | 0 | 0 |
| Oil Changed | Client Info | | N/A | N/A | N/A |
| Sample Status | | | ABNORMAL | ABNORMAL | ABNORMAL |

CONTAMINATION

| | method | limit/base | current | history1 | history2 |
|-------|-----------|------------|------------|----------|----------|
| Water | WC Method | >2 | NEG | NEG | NEG |

WEAR METALS

| | method | limit/base | current | history1 | history2 |
|----------|--------|-----------------|--------------|----------|----------|
| Iron | ppm | ASTM D5185m >20 | 0 | <1 | <1 |
| Chromium | ppm | ASTM D5185m >20 | 0 | <1 | 0 |
| Nickel | ppm | ASTM D5185m >20 | <1 | 0 | 0 |
| Titanium | ppm | ASTM D5185m | 0 | 0 | 0 |
| Silver | ppm | ASTM D5185m | 0 | 0 | 0 |
| Aluminum | ppm | ASTM D5185m >20 | <1 | 2 | <1 |
| Lead | ppm | ASTM D5185m >20 | ▲ 51 | ▲ 54 | ▲ 46 |
| Copper | ppm | ASTM D5185m >20 | <1 | <1 | <1 |
| Tin | ppm | ASTM D5185m >20 | 1 | 0 | 0 |
| Vanadium | ppm | ASTM D5185m | 0 | 0 | 0 |
| Cadmium | ppm | ASTM D5185m | 0 | 0 | 0 |

ADDITIVES

| | method | limit/base | current | history1 | history2 |
|------------|--------|----------------|--------------|----------|----------|
| Boron | ppm | ASTM D5185m | 0 | 0 | 0 |
| Barium | ppm | ASTM D5185m | <1 | 0 | 0 |
| Molybdenum | ppm | ASTM D5185m | 0 | 0 | 0 |
| Manganese | ppm | ASTM D5185m | <1 | 0 | <1 |
| Magnesium | ppm | ASTM D5185m 90 | 68 | 77 | 81 |
| Calcium | ppm | ASTM D5185m | 2 | 2 | 1 |
| Phosphorus | ppm | ASTM D5185m | 3 | 31 | 4 |
| Zinc | ppm | ASTM D5185m | <1 | 0 | 4 |
| Sulfur | ppm | ASTM D5185m | 22341 | 21160 | 22598 |

CONTAMINANTS

| | method | limit/base | current | history1 | history2 |
|-----------|--------|-----------------|----------|----------|----------|
| Silicon | ppm | ASTM D5185m >15 | 0 | 1 | 0 |
| Sodium | ppm | ASTM D5185m | 3 | 2 | 3 |
| Potassium | ppm | ASTM D5185m >20 | 2 | 1 | <1 |

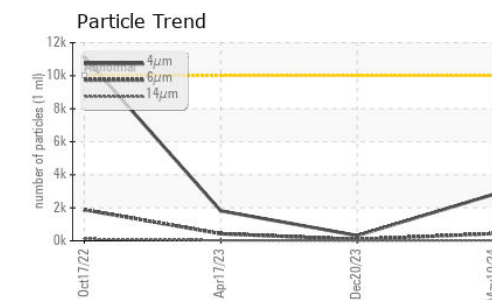
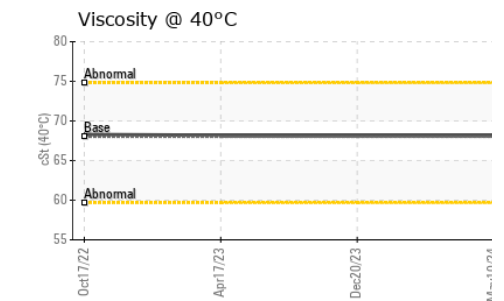
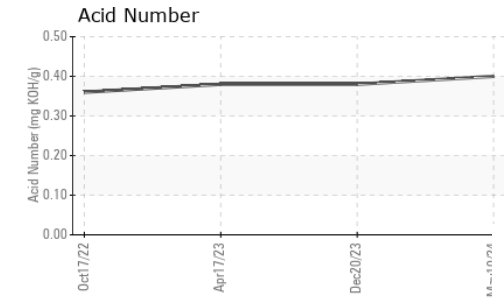
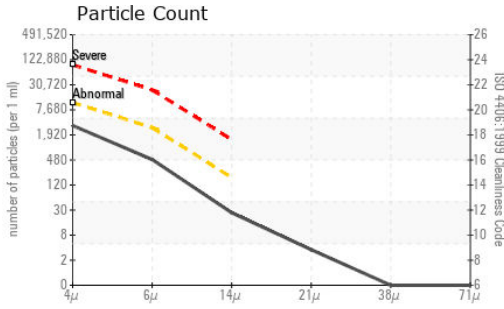
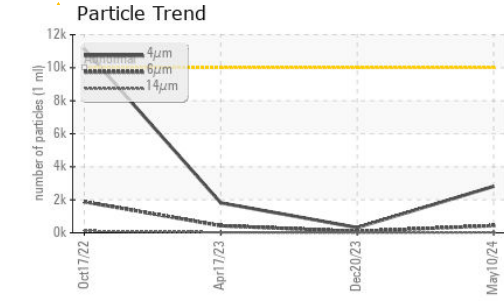
FLUID CLEANLINESS

| | method | limit/base | current | history1 | history2 |
|-----------------|--------------|------------|-----------------|----------|----------|
| Particles >4µm | ASTM D7647 | >10000 | 2815 | 319 | 1815 |
| Particles >6µm | ASTM D7647 | >2500 | 433 | 82 | 430 |
| Particles >14µm | ASTM D7647 | >160 | 23 | 12 | 25 |
| Particles >21µm | ASTM D7647 | >40 | 3 | 4 | 4 |
| Particles >38µm | ASTM D7647 | >10 | 0 | 0 | 1 |
| Particles >71µm | ASTM D7647 | >3 | 0 | 0 | 0 |
| Oil Cleanliness | ISO 4406 (c) | >20/18/14 | 19/16/12 | 15/14/11 | 18/16/12 |

FLUID DEGRADATION

| | method | limit/base | current | history1 | history2 |
|------------------|----------|------------|-------------|----------|----------|
| Acid Number (AN) | mg KOH/g | ASTM D8045 | 0.40 | 0.38 | 0.38 |

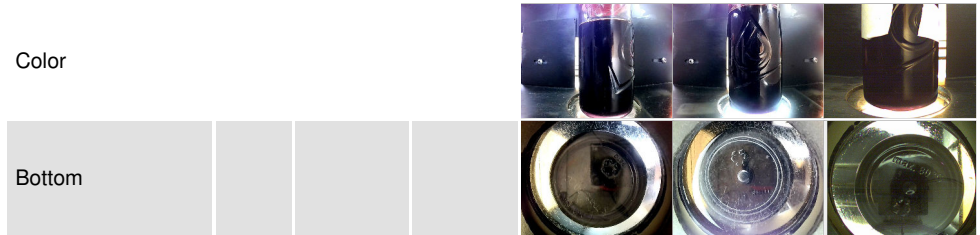
OIL ANALYSIS REPORT



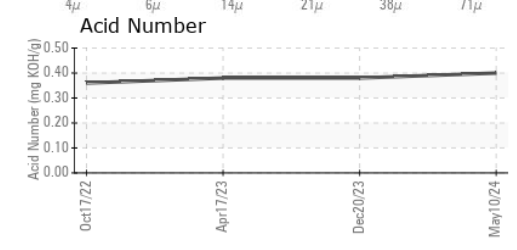
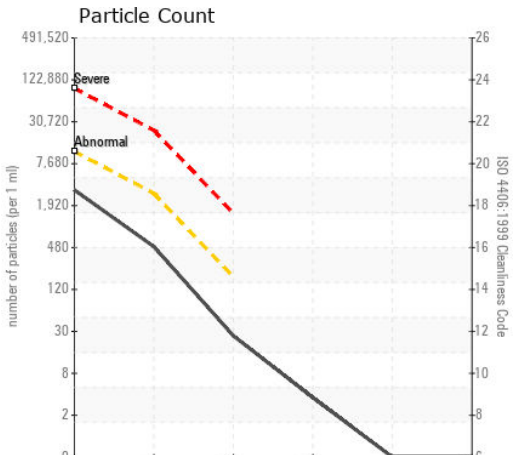
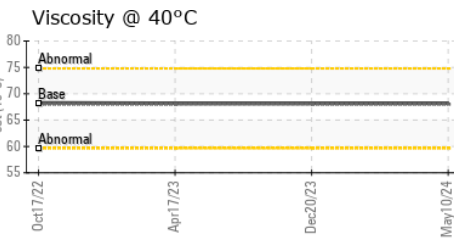
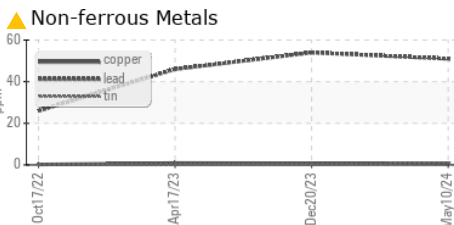
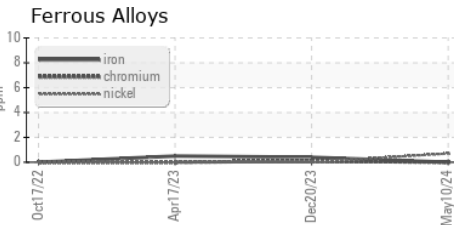
| VISUAL | method | limit/base | current | history1 | history2 |
|------------------|--------|------------|---------|----------|----------|
| White Metal | scalar | *Visual | NONE | NONE | NONE |
| Yellow Metal | scalar | *Visual | NONE | NONE | NONE |
| Precipitate | scalar | *Visual | NONE | NONE | NONE |
| Silt | scalar | *Visual | NONE | NONE | NONE |
| 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 | >2 | NEG | NEG |
| Free Water | scalar | *Visual | | NEG | NEG |

| FLUID PROPERTIES | method | limit/base | current | history1 | history2 |
|------------------|--------|--------------|---------|----------|----------|
| Visc @ 40°C | cSt | ASTM D445 68 | 68.2 | 68.2 | 68.2 |

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



GRAPHS



Certificate L2367

Laboratory : WearCheck USA - 501 Madison Ave., Cary, NC 27513
Sample No. : KFS0005158 **Received** : 14 May 2024
Lab Number : 06179340 **Tested** : 16 May 2024
Unique Number : 11030666 **Diagnosed** : 16 May 2024 - Angela Borella
Test Package : IND 2 (Additional Tests: PrtCount)

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)

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