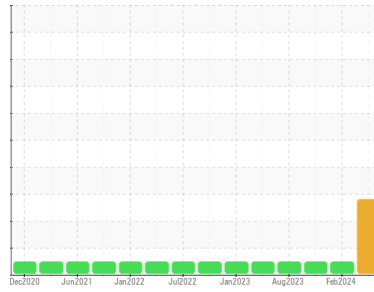




# OIL ANALYSIS REPORT

Sample Rating Trend



ISO



Machine Id

## DEW CLAW CUTTER 2 NK

Component

Hydraulic System

Fluid

USPI FG HYD 46 (--- LTR)

### DIAGNOSIS

#### Recommendation

We recommend you service the filters on this component. Resample at the next service interval to monitor.

#### Wear

All component wear rates are normal.

#### Contamination

There is a high amount of particulates 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 | <b>USPM36430</b>   | USPM30201   | USPM31451   |
| Sample Date   | Client Info | <b>30 May 2024</b> | 27 Feb 2024 | 27 Nov 2023 |
| Machine Age   | hrs         | Client Info        | 0           | 0           |
| Oil Age       | hrs         | Client Info        | 0           | 0           |
| Oil Changed   | Client Info | <b>N/A</b>         | N/A         | N/A         |
| Sample Status |             | <b>ABNORMAL</b>    | NORMAL      | NORMAL      |

### 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 | <1       | <1       |
| 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        | <1       |
| Copper   | ppm        | ASTM D5185m >20 | 0        | <1       |
| Tin      | ppm        | ASTM D5185m >20 | 0        | <1       |
| Vanadium | ppm        | ASTM D5185m     | 0        | 0        |
| Cadmium  | ppm        | ASTM D5185m     | 0        | <1       |

### ADDITIVES

| method     | limit/base | current         | history1   | history2 |     |
|------------|------------|-----------------|------------|----------|-----|
| Boron      | ppm        | ASTM D5185m     | 0          | 0        |     |
| Barium     | ppm        | ASTM D5185m     | 0          | 0        |     |
| Molybdenum | ppm        | ASTM D5185m     | 0          | <1       |     |
| Manganese  | ppm        | ASTM D5185m     | <1         | <1       |     |
| Magnesium  | ppm        | ASTM D5185m     | 0          | <1       |     |
| Calcium    | ppm        | ASTM D5185m     | 0          | 0        |     |
| Phosphorus | ppm        | ASTM D5185m 725 | <b>414</b> | 434      | 388 |
| Zinc       | ppm        | ASTM D5185m     | 0          | 0        |     |
| Sulfur     | ppm        | ASTM D5185m 625 | <b>543</b> | 514      | 472 |

### CONTAMINANTS

| method    | limit/base | current          | history1     | history2 |       |
|-----------|------------|------------------|--------------|----------|-------|
| Silicon   | ppm        | ASTM D5185m >15  | 6            | 7        |       |
| Sodium    | ppm        | ASTM D5185m      | 1            | 0        |       |
| Potassium | ppm        | ASTM D5185m >20  | 1            | 2        |       |
| Water     | %          | ASTM D6304 >0.05 | <b>0.020</b> | 0.002    | 0.001 |
| ppm Water | ppm        | ASTM D6304 >500  | <b>208</b>   | 24       | 15    |

### FLUID CLEANLINESS

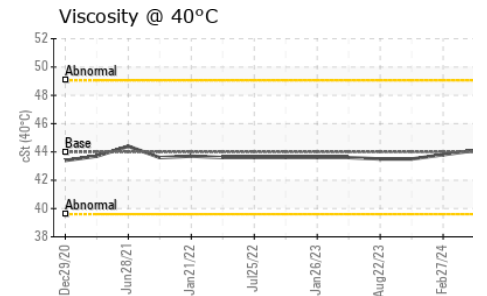
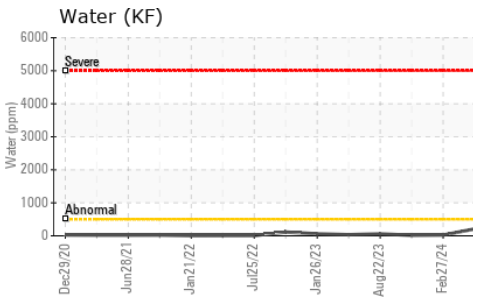
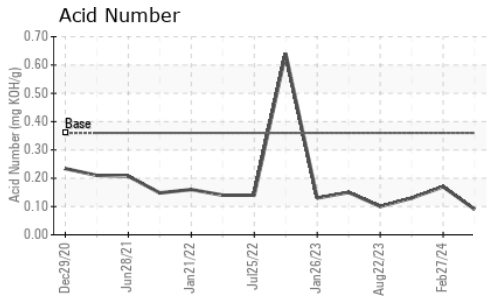
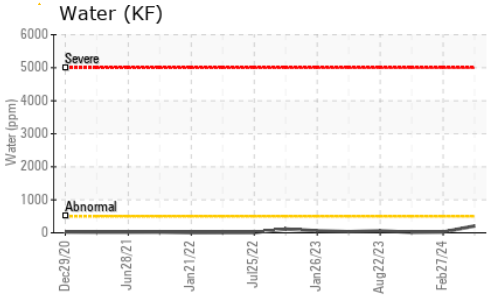
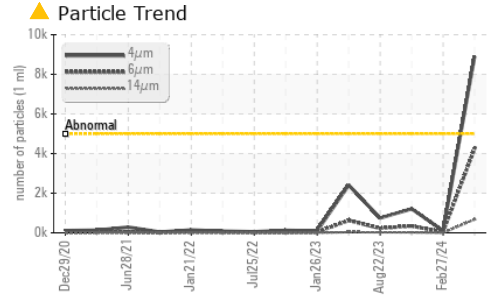
| method          | limit/base             | current         | history1 | history2 |
|-----------------|------------------------|-----------------|----------|----------|
| Particles >4µm  | ASTM D7647 >5000       | <b>8899</b>     | 104      | 1211     |
| Particles >6µm  | ASTM D7647 >1300       | <b>4249</b>     | 37       | 345      |
| Particles >14µm | ASTM D7647 >160        | <b>678</b>      | 4        | 22       |
| Particles >21µm | ASTM D7647 >40         | <b>208</b>      | 2        | 5        |
| Particles >38µm | ASTM D7647 >10         | <b>21</b>       | 0        | 1        |
| Particles >71µm | ASTM D7647 >3          | <b>4</b>        | 0        | 0        |
| Oil Cleanliness | ISO 4406 (c) >19/17/14 | <b>20/19/17</b> | 14/12/9  | 17/16/12 |

### FLUID DEGRADATION

| method           | limit/base | current         | history1    | history2 |      |
|------------------|------------|-----------------|-------------|----------|------|
| Acid Number (AN) | mg KOH/g   | ASTM D8045 0.36 | <b>0.09</b> | 0.17     | 0.13 |



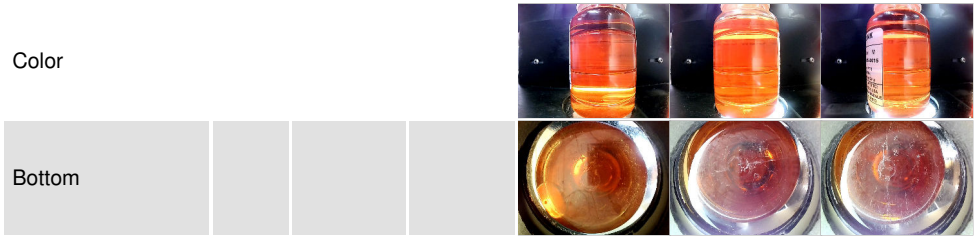
# OIL ANALYSIS REPORT



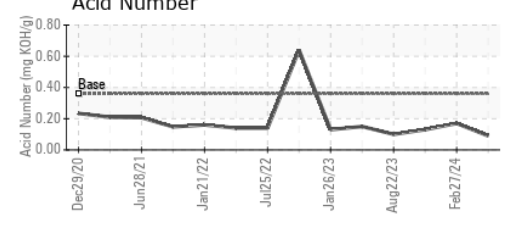
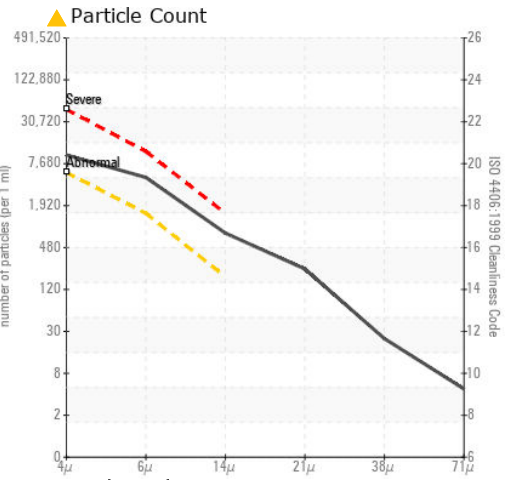
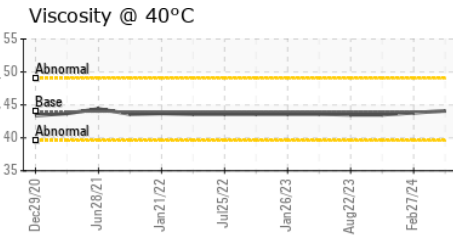
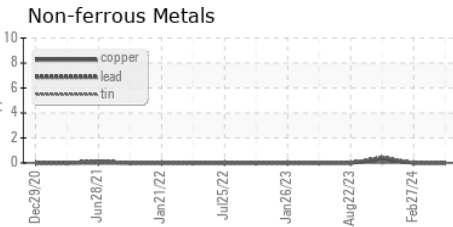
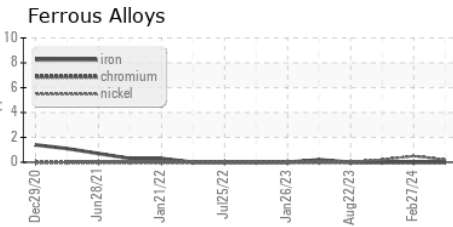
| VISUAL           | method | limit/base | current | history1 | history2 |
|------------------|--------|------------|---------|----------|----------|
| White Metal      | scalar | *Visual    | NONE    | NONE     | NONE     |
| Yellow Metal     | scalar | *Visual    | NONE    | NONE     | NONE     |
|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

| FLUID PROPERTIES | method | limit/base | current | history1 | history2 |
|------------------|--------|------------|---------|----------|----------|
| Visc @ 40°C      | cSt    | ASTM D445  | 44      | 44.1     | 43.8     |

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



## GRAPHS



**Laboratory** : WearCheck USA - 501 Madison Ave., Cary, NC 27513  
**Sample No.** : USPM36430  
**Lab Number** : 06199216  
**Unique Number** : 11061339  
**Test Package** : IND 2

**TYSON - DAKOTA CITY SLAUGHTER**  
 DAKOTA CITY, NE  
 US  
 Contact:  
 doug.bogart@wearcheck.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)